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There are over 1000 active water quality stations in Region VIII. For this review, 852 stations were examined from the state of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming. Data were reduced into five groups: (1) TDS or the dissolved solids indicator; (2) Hazardous Materials; (3) ORB or oxygen related and biological parameters; (4) Field parameters; and (5) Nutrients.

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ERRATA SHEET FOR BASE MAPS

Colorado Base Map

Stations: Colorado 000003 R% should be 10%
" 000004 " " " 15%
" 000010 " " " 11%
000065 " " " 5%
000108 " " " 6%

Colorado 000117 and
USGS Coop 08227700 R% should be 1%

Montana Base Map

Station: USGS Coop 12367800 R% should be 11%

North Dakota Base Map

Station: USGS Coop 05715000 R% should be 11%

South Dakota Base Map

Station: USGS Coop 06482830 R% should be 17%

Utah Base Map

Station: Utah 491304 R% should be 4%
" 491502 " " " 4%
" 491524 " " " 24%
" 491703 " " " 2%

Wyoming Base Map

Station: USGS/EPA Coop 06645000 R% should be 11%

NOTE: Utah USGS Coop Station 09163500 should be 09163530.

REGION VIII WATER QUALITY INDEX

Surveillance Branch
Surveillance & Analysis Division
Environmental Protection Agency

March 1973

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I. Overview

A. Foreword

Many attempts have been made and are being made to reduce the vast amount of water quality data into a manageable form. Many of these attempts though are complex and useful only to a select, few, knowledgeable insiders. In this survey simplicity and use by the largest number of people is sought.

Once the basic methodology of the survey is mastered, inference, insights, and valid criticism of the survey can be made. In this hopefully informative review, the goal is usefulness--usefulness pointed to water quality improvement.

A number of objectives were set for the preparation of the water quality index for this Region. These were:

1. To present an overview of stream quality in Region VIII;

2. To reduce data to a generally understandable form;

3. To provide water quality managers a sounding-board for their evaluation and decisions; and,

4. To highlight gaps, duplications, or other generalities in existing data.

No review of this type is any better than the assumptions used to establish baseline criteria. Criteria used for this evaluation have been carefully screened and intensively reviewed. Despite this diligence, the criteria and the indications given by the work-up will not and cannot be applicable to every set of circumstances. Apparent relationships on paper may be unrelated to the real situation. Hopefully, departure from reality will not be the general rule. Criteria used as a benchmark for this study have not considered State Water Quality Standards nor stream classifications. Standards and stream classifications vary from State-to-State. Background levels of "natural" constituents also vary. In general, however, "good" quality water is not a variable. It is the use and, subsequently, the acceptability of water for this use that varies. "Good" quality water is considered water acceptable for municipal supplies, recreation, and propagation of native fish.

Values in excess of those acceptable for drinking water use have generally been selected as indications of less than good quality. Standards in use for full body-contact recreation and selected values considered "best" for aquatic life have also been considered as a benchmark for "excess" and "reject" values used throughout this review. "Excess" values, except those that are the same as "reject" values, are generally those which would render the water unfit for widespread use without extensive treatment. "Reject" values are those at which the water would be very difficult to treat before use and/or in most cases would cause fish-kills or spread disease.

Each monitoring station has been reviewed separately. In reality, a station-by-station review is necessitated in the absence of more comprehensive on-going stream data. As a result of this basic limitation, generalities for a large reach of a stream should not be made. In reviewing the data only the immediate area near the station can be considered, and in some cases this may be questionable since sources of pollution, dilution, or diversion may affect near downstream conditions. Nonetheless, certain generalities can and have been drawn by careful inference. Users of this review can explore these inferencces, test them, and draw similar or new conclusions.

Data have been reviewed from January 1968 to September 1972. Earlier data have not been used since many changes in stream characteristics due to recent impoundments, new agricultural withdrawals, urban influences, etc., have materially altered much of these data.

With the limitations of this review clearly in mind, it can be a useful guide to assessment of water quality in this region. In the final analyses the scrupulous reviewer must scan and evaluate the raw data. He must review other sources of data as well, along with the credibility of these sources.

Data used were exclusively taken from STORET. STORET data is a compilation of numbers from a great many sources, a result of many sampling techniques and analytical methods, field treatment, and other variables. Assuming a normal distribution of techniques, procedures, accuracy and precision, the data evaluations from relatively large numbers of values will be valid, whereas evaluations from smaller numbers of values will be questionable.

A major consideration which has not been accounted for in this survey is the presence of accompanying remarks with the raw data. Data have been entered into STORET with notations indicating that the data were known to be less than that indicated or were an estimate, etc. Gross data work-ups in this review have assumed all data were notation free. As a result small numbers of values with notations will require a value-by-value review to determine real trends or other indications. In every case then, review of the raw data must accompany this review.

When data are collected for a period of time, then discontinued, a false trend may present itself. Also, data collected for short-run objectives or program oriented purposes can indicate falsely that a seeming trend toward dimunition or improvement in water quality is indicated, when, in fact,the reverse may be true. Care must be exercised in trend evaluations.

Scientific methods have been considered but not meticulously followed since to do so would be to abandon the survey. If the empirical assumptions used are wrong, if useful inferences, insights, or generalities are gained, then the review will be a success.

B. Introduction

Water quality data are collected by many Federal, State, and local agencies, most notably by the U. S. Geological Survey (USGS). The USGS cooperates with Federal and State agencies to collect data on a wide number of parameters. Individual States also collect data, often on a large-scale basis.

Water quality data are collected for many reasons, some of which are:

1. To determine ambient conditions for baselines and as an early warning of degradation;
2. To evaluate accomplishment of standards;
3. To define the impact of an effluent on stream quality;
4. To determine potability or treatment needs prior to use;
5. To determine stream loading factors;
6. To detect hazardous conditions;
7. To support engineering evaluations.

In general, the USGS collects background data and the States collect data to determine the impact of municipal or industrial effluents. Other agencies such as the Forest Service, Bureau of Outdoor Recreation, etc., collect or cooperate with the USGS to collect data that are related to their sphere of interest.

Notable exceptions to these general assumptions are found in Region VIII. The State of Colorado maintains a large network of stations which serve multiple uses. The Denver Water Board (whose data are now being entered into STORET), collects a wide range of background data.

C. Scope

There are over 1000 active water quality stations in Region VIII. Some of these stations are county or city stations which do not have their data in STORET as yet. For this review, 852 stations were examined as follows: from the States of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming → D-4

Colorado	State	124
	USGS Coop	103
	USGS EPA Coop	14
	Total	241
Montana	State	0
	USGS Coop	91
	USGS EPA Coop	17
	Total	108
North Dakota	State	26
	USGS Coop	51
	USGS EPA Coop	8
	Total	85
South Dakota	State	25
	USGS Coop	43
	USGS EPA Coop	5
	Total	73
Utah	State	18
	USGS Coop	74
	USGS EPA Coop	12
	Total	104
Wyoming	State	0
	USGS EPA Coop	228
	USGS Coop	13
	Total	241
	Grand Total	852

II. Data Review

A. Data Screening

Three types of water quality monitoring stations have been singled out in this review. They are: State Stations, EPA-USGS Cooperative Stations, and USGS-Other Cooperative Stations. In later reviews other data will be used to broaden the scope and increase the depth of review. No industrial or municipal effluent stations were selected for review.

Data were reduced into five groups: 1) TDS or the dissolved solids indicator; 2) Hazardous Materials; 3) ORB or oxygen related and biological parameters; 4) Field parameters; and, 5) Nutrients. The most difficult problems in selecting parameters for each group were the varying methods of analysis for dissolved solids and bacteriological parameters. The selection of parameters for the hazardous materials group was itself a complication, as was the selection of a benchmark for the nutrient group.

The TDS group is really only an indication of dissolved solids and perhaps filtrable residue would be a better term. Residues used were determined at both 105°C and 180°C. Most probable number (MPN) and membrane filter (MF) techniques of analysis were considered equal although there is no good correlation between the two. Ammonia has been considered a hazardous material and not a nutrient. Differences between dissolved and total metals were not made since growing evidence suggests that suspended metals are introduced into the food chain. Total and dissolved radiation were also considered equal although dissolved radiation is certainly the more direct hazard. (A conversion factor of .7 was used to convert pC/1 of alpha radiation to mg/1.) Fecal streptococcus data, although available for a few stations, were not used simply because no reasonable benchmark could be found for this parameter.

Pesticide data were not available in sufficient quantities to be evaluated. (A review of those samples that were available did not reveal any values in excess of selected benchmarks.)

Great care was taken to avoid double counting of parameters such as NH_3 and NH_4, which had both been stored for the same sample under two identifying codes. A complete list of parameters with "excess" and "reject" benchmarks and accompanying sources is given in the following Table 1.

TABLE 1

EXCESS AND REJECT GUIDELINES

GROUP	STORET CODE	PARAMETER	PARAMETER DESCRIPTION	EXCESS VALUE	SOURCE	REJECT VALUE	SOURCE
I. - TDS							
	00515	Dissolved Solids	Residue, Total Filtrable Dried at 105°C	500	WQC	2100	CWQ
	70295	Dissolved Solids	Residue, Total Filtrable Any Temperature	500	"	2100	"
	70300	Dissolved Solids	Residue, Total Filtrable Dried at 180°C	500	"	2100	"
II.A. - Metals							
	01000	Arsenic	Dissolved - ug/l	50 ug/l	USPHS	1000 ug/l	"
	01002	Arsenic	Total - ug/l	50 "	"	1000 "	"
	01005	Barium	Dissolved - ug/l	1000 "	"	5000 "	"
	01007	Barium	Total - ug/l	1000 "	"	5000 "	"
	01025	Cadmium	Dissolved - ug/l	10 "	"	10 "	"
	01027	Cadmium	Total - ug/l	10 "	"	10 "	"
	01030	Chromium	Dissolved - ug/l	50 "	"	1000 "	"
	01032	Chromium (Hexavalent)	Dissolved - ug/l	50 "	"	1000 "	"
	01034	Chromium	Total - ug/l	50 "	"	1000 "	"
	01040	Copper	Dissolved - ug/l	20 "	CWQ	20 "	"
(cont.)	01042	Copper	Total - ug/l	20 "	"	20 "	"

Source Key: USPHS - U. S. Public Health Service Drinking Water Standards, 1962.
CWQ - California "Water Quality Criteria, 1963"
WQC - Federal Water Pollution Control Admin. "Water Quality Criteria, 1972.
EL - Corvallis Eutrophication Laboratory (modified "Sawyer" numbers).

TABLE 1 (Cont.)

GROUP	STORET CODE	PARAMETER	PARAMETER DESCRIPTION	EXCESS VALUE	SOURCE	REJECT VALUE	SOURCE
II.A.-Metals (Cont.)							
	01049	Lead	Dissolved - ug/l	50 ug/l	USPHS	100 ug/l	CWQ
	01051	Lead	Total - ug/l	50 "	"	100 "	"
	01055	Manganese	Dissolved - ug/l	50 "	"	1000 "	"
	01056	Manganese	Total - ug/l	50 "	"	1000 "	"
	01075	Silver	Dissolved - ug/l	2 "	CWQ	2 "	"
	01077	Silver	Total - ug/l	2 "	"	2 "	"
	01090	Zinc	Dissolved - ug/l	10 "	"	10 "	"
	01092	Zinc	Total - ug/l	10 "	"	10 "	"
	01145	Selenium	Dissolved - ug/l	10 "	USPHS	1000 "	"
	01147	Selenium	Total - ug/l	10 "	"	1000 "	"
	71890	Mercury	Dissolved - ug/l	5 "	CWQ	5 "	"
	71900	Mercury	Total - ug/l	5 "	"	5 "	"
II.B.- Other Hazardous Materials							
	00610	Ammonia	Nitrogen Total (as N) mg/l	0.05 mg/l	CWQ	0.05 mg/l	CWQ
	00720	Cyanide	(As CN) mg/l	0.01 "	"	0.025 "	"
	71845	Ammonia	Nitrogen (as NH_4) mg/l	0.05 "	"	0.05 "	"

TABLE 1 (Cont.)

GROUP	STORET CODE	PARAMETER	PARAMETER DESCRIPTION	EXCESS VALUE	SOURCE	REJECT VALUE	SOURCE
II.C.- Radiation							
	01501	Radiation Alpha	Total - pC/L	3pC/L	WQC	Nuclide by Nuclide	- -
	01515	Radiation Alpha	Dissolved - pC/L	3 "	"	"	- -
	03501	Radiation Beta	Total - pC/L	100 "	"	"	- -
	03515	Radiation Beta	Dissolved - pC/L	100 "	"	"	- -
	80030	Radiation Alpha	Dissolved Gross (as U-NAT) ug/l	2.1 ug/l	"	"	- -
	80050	Radiation Beta	Dissolved Gross (as Sr-Y 90) pC/L	100pC/L	"	"	- -
III. - ORB							
	00299	Dissolved Oxygen	By Probe - mg/l	<5.0 mg/l	CWQ	<3.0 mg/l	CWQ
	00300	Dissolved Oxygen	Laboratory - mg/l	5.0 "	"	3.0 "	"
	00310	BOD	5-day 20°C. - mg/l	4.0 "	WQC	25.0 "	1/2 WQC
	00311	BOD	Dissolved - mg/l	4.0 "	"	25.0 "	"
	31501	Coliform	Total Memb.Filter M-Endo #/100 ML	1000/ 100 ML	"	20,000/ 100 ML	"
	31505	Coliform	Total MPN Confirmed #100 ML	1000/ 100 ML	"	20,000/ 100 ML	"
	31616	Coliform	Fecal Memb.Filter M-FC #100 ML	200/100 ML	"	4,000/ 100 ML	"
	31619	Coliform	Fecal Lactose #/100 ML	200/100 ML	"	4,000/ 100 ML	"

TABLE 1 (Cont.)

GROUP	STORET CODE	PARAMETER	PARAMETER DESCRIPTION	EXCESS VALUE	SOURCE	REJECT VALUE	SOURCE
IV. - Field							
	00010	Temperature	Centigrade	>21	CWQ	>34	CWQ
	00011	Temperature	Fahrenheit	>70	"	>93	"
	00070	Turbidity	Jackson Candle Units	>10	WQC	>50	WQC
	00400	pH	Standard Units - Field Measurement	<6.5> 8.5	"	<5.0> 9.5	CWQ
	00403	pH	Standard Units - Laboratory Measurement	<6.5> 8.5	"	<5.0> 9.5	"
V. - Nutrients							
	00600	Nitrogen	Total (as N) mg/1	1.2 mg/1	EL	None Defined	- -
	00618	Nitrogen	Dissolved Nitrate (as N) mg/1	0.6 "	"	"	- -
	00620	Nitrogen	Total Nitrate (as N) mg/1	0.6 "	"	"	- -
	00630	Nitrogen	Total Nitrate-Nitrite (as N) mg/1	0.6 "	"	"	- -
	00631	Nitrogen	Dissolved Nitrate-Nitrite (as N) mg/1	0.6 "	"	"	- -
	00650	Phosphate	Total (as PO_4) mg/1	0.090 "	"	"	- -
	00660	Phosphate	Ortho (as PO_4) mg/1	0.090	"	"	- -
	71850	Nitrate	As NO_3	2.6 "	"	"	- -
	71866	Phosphorous	Total (as P) mg/1	0.03 "	"	"	- -
	71877	Nitrogen	Total (as NO_3) mg/1	5.25 "	"	"	- -
	71888	Phosphorous	Total Soluble (as PO_4)	0.090 "	"	"	- -

TABLE 1 (Cont.)

GROUP	STORET CODE	PARAMETER	PARAMETER DESCRIPTION	EXCESS VALUE	SOURCE	REJECT VALUE	SOURCE
VI. - Special							
	Numerous	Pesticides Herbicides Fungicides Defoliants Algicides		1/100 48hr TLM	WQC	1/10 48hr TLM	WQC

B. Methodology

Throughout this section and the remainder of the report three values are mentioned often enough that they must be carefully differentiated at the outset. These three values are the "weighted value percentage," the "overall code," and the "reject percentage." The "weighted value percentage" is the final product of the data reduction process. It is a product of a data reduction process which reduced the data to a five-digit number and the assigned weights for each digit. The "overall code" is the simplified code which results from an analysis of the weighted value percentages. It is the basis for the graphic indication given in Figures 1 thru 6. The "reject percentage" stands alone and is simply the percentage found from dividing the total number of values reviewed by the total number of rejects.

Initially five groups of parameters were considered a workable reduction of the data. A resultant five-digit number from this reduction should be useful even to the non-technical reviewer. In addition, the simple "overall code" permits a graphic presentation of the data.

The five-digit code is founded on benchmark "excesses." (See Data Screening section). Excesses were determined from a literature review of water quality standards and criteria as noted in the "Excess and Reject Guidelines (Table 1)." A digit from "0" to "3" was used to distinguish what percentage of excesses was found. A "0" is the best rating and indicates 0% excesses. A "1" indicates 1-10% excesses, a "2" indicates 10-25% excesses, and a "3," the worst rating, indicates that more than 25% of the samples showed excess values. At 25%+ excesses water quality is considered undesirable.

Using the full five-digit code, a rating of 00000 would imply that the water was fit for any use at any time, and a rating of 33333 would imply the water was undesirable for any use at least 25% of the time.

Weighting of groups in relation in their importance to one another was necessary to develop the "overall code" from the five-digit code.

Weighting has, necessarily, been determined on a qualitative basis. A literature review and conferral with knowledgeable people in water quality assessment was basic to the weighting process. At best, the assigned weights are an informed guess. TDS and the Field groups have been rated as "1"; the nutrients are weighted at "2"; ORB is rated at "3"; and the hazardous materials group is rated at "5."

The "weighted value percentage" was calculated taking into account the weights and the five-digit code. The weighted value percentage actually determines the "overall code." A "weighted value percentage" from 0 - 33-1/3 is shown as a clear circle near the sampling location; 33-1/3+ - 66-2/3 is given a half circle; and, 66-2/3+ is shown as a full circle.

No station was given an overall code unless three parameter groups were rateable, and no group was considered rateable unless ten or more values were available.

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, and many other factors can
during short periods of time.
rk was incorporated into the
mined from a literature survey
A benchmark was selected which
ous for humans to touch, could
animals to drink, or could
ion water. (No "reject" for
s was considered appropriate.)
percentage basis (rejects/total
n rejects has been noted in
ct percentage" indicates that
as of such quality that its use

gardless of the quantity of data,
tunate bias in examining reject
large numbers of values have
o review the raw data to determine
impossible values, such as a pH
sideration. When reject percentages
d, the "R" percentage is just an
at most, a few values were rejects.
mine, can be made from the reject
on is active throughout the review
ollected without break for two
t into STORET. (Again, raw data
ends even if the above conditions

I in close proximity or at the same
l ase of posting and graphic evalua-
t hen they are within approximately
t d no major tributaries separate
t s such as city- or known-point
s a from both stations suggest a
d

I stations is inactive, yet some
du view of this possible duplication
by rthwhile.

A station is noted in the following
br ages (Table 2).

III. State

Each S ewed separately and a review of
the re n II has resulted in the following
genera h State review has with it the
annotat cription of each station surveyed.
The ma ion identification number, location,
five-d nd the reject percentage. In addi-
tion, c in many cases represent trends, are
given f

TABLE 2

STATE DATA SUMMARY OF WEIGHTED RATING PERCENT BY AGENCY COLLECTING DATA AT STATION

State	0 - 33 1/3%		33 1/3 - 66 2/3%		66 2/3 - 100%	
	0-17	17-33 1/3	33 1/3-50	50-66 2/3	66 2/3-83	83-100
COLORADO						
State Sta.	2		41		53	
	0	2	17	24	19	34
EPA Coop	2		3		4	
	0	2	3	0	1	3
USGS Coop	5		14		15	
	1	4	6	8	12	3
MONTANA						
State Sta.	- -		- -		- -	
EPA Coop	1		5		8	
	0	1	3	2	8	0
SGS Coop	21		16		23	
	7	14	11	5	15	8
NO. DAKOTA						
State Sta.	1		16		9	
	0	1	1	15	6	3
EPA Coop	0		4		4	
	0	0	1	3	4	0
USGS Coop	2		7		28	
	0	2	2	5	14	14
SO. DAKOTA						
State Sta.	1		3		6	
	0	1	0	3	4	2
EPA Coop	0		0		5	
	0	0	0	0	3	2

TABLE 2 (Cont.)

State	0 - 33 1/3%		33 1/3 - 66 2/3%		66 2/3 - 100%	
	0-17	17-33 1/3	33 1/3-50	50-66 2/3	66 2/3-83	83-100
SO. DAKOTA (Cont.)						
USGS Coop	0		0		10	
	0	0	0	0	3	7
UTAH						
State Sta.	0		8		15	
	0	0	3	5	15	0
EPA Coop	0		4		2	
	0	0	3	1	1	1
USGS Coop	4		4		2	
	1	3	3	1	1	1
WYOMING						
State Sta.	- -		- -		- -	
EPA Coop	4		4		2	
	1	3	0	4	1	1
USGS Coop	15		13		16	
	6	9	7	6	10	6

A. Colorado

1. State of Colorado Water Quality Stations

a. The State of Colorado maintains an extensive monitoring network which embraces a multipurpose program.

b. All stations were rateable in all five of the parameter groups.

c. In the ORB group, 82 of 96 rateable stations had more than 10% excesses.

d. In the Nutrient group, only 11 of the 96 rateable stations had less than 25% excesses.

e. Rejects were mostly due to the Hazardous Materials group, primarily zinc, ammonia, and manganese, with lesser rejects for copper, silver, lead, mercury, and cyanide. Many rejects were also noted for total coli, fecal coli, and turbidity, with some for pH and TDS.

f. Stations with high reject percentages were:

(1) The Fountain Creek below Colorado Springs (23%).

(2) The Cache La Poudre near Greeley (20%).

(3) The Big Thompson River near the confluence with the South Platte (17%).

(4) Clear Creek near the confluence with the South Platte (17%).

(5) McElmo Creek west of Cortez (17%).

(6) Clear Creek at Wheat Ridge (17%).

g. High reject percentages (based on fewer values) were also noted at:

(1) Cross Creek at the confluence with the Eagle River (21%).

(2) The Little Thompson near Milliken (25%).

(3) The St. Vrain Creek at the Weld County line (22%).

h. Four stations had a maximum weighted value percentage of 100%. These stations were:

(1) The Arkansas River below Pueblo, near Nepesta.

(2) The Apishapa River near Fowler.

(3) The South Platte at Henderson.

(4) The Cache La Poudre near Greeley.

i. The weighted value percentages for the State of Colorado stations indicate a high concentration (34 of 96) in the 83 - 100% category. Ninety-seven percent of the stations rated had a weighted value percentage above 33-1/3%, with only two stations rated below 33-1/3%.

2. USGS Cooperative Stations

a. In the TDS group, 28 of 49 rateable stations had more than 25% excesses.

b. In the Hazardous Materials group, 13 of 26 stations which were rateable indicated 25% or more excesses with only one station with less than 10% excesses and one with 0% excesses.

c. Two stations of the 30 stations rateable in the ORB groups noted more than 25% excesses. These stations were the South Platte at Henderson and the Arkansas River at the Kansas border.

d. In the Nutrient group, 27 of 45 stations rateable had 25% or more excesses. Nine had less than 10% excesses and 5 had 0% excesses.

e. Rejects were mostly for zinc, ammonia, manganese, with lesser rejects for copper, mercury, chromium, and cadmium. TDS rejects for only three stations were noted.

f. Reject percentages were generally in excess of 10%, with high rejects being noted at the Cache La Poudre near Ft. Collins (18%), an unidentified Arkansas River tributary near South Park (22%), and the Arkansas River at the Kansas border (22%).

g. Weighted value percentages were, for the post part, high, with 19 in the 66-2/3 to 100% category; 17 in the 33-1/3 to 66-2/3% category; and, 7 in the 0 to 33-1/3% category.

3. Combined Stations

a. In only one case did a combined station indicate nutrient levels less than 25% excesses, this being for the Blue River near Kremmling.

b. Complementary data does seem apparent at some combined stations, with the State of Colorado stations providing most of the ORB data.

c. Twenty-two combined stations were rated in Colorado. Fourteen of these appear to have overlapping or duplicate data for certain constituents.

d. Two combined stations, the South Platte at Henderson and the Apishapa River near Fowler, noted 100% weighted value percentages.

4. Overview

Although little data are available on impoundments, lakes, and the like, Colorado has by far the most intensive water quality monitoring network in Region VIII. The State stations combined with USGS stations leave few gaps along the major rivers in the State. The general trend seems to indicate the gradual diminution of water quality as the water flows across the State. Although a number of USGS-EPA Coop stations have been dropped recently, a reappraisal of water quality monitoring could prove a very cost-effective survey.

The Arkansas River indicates such poor quality water, and is or will be sufficiently populous that it should be considered a Regional strategy area.

Colorado appears to have the lowest water quality of any of the States in Region VIII. Three stations in particular indicate at times especially poor quality water. These are the Fountain Creek below Colorado Springs, the Ten Mile Creek at Kokomo, and Cross Creek near the Eagle River.

COLORADO

5. STATION DESCRIPTIONS

COLORADO STATE STATIONS

NUMBER	LOCATION
001	Arkansas River nr Coolidge, Kans.
002	" " at Lamar, Colo.
003	" " " Las Animas, Colo.
004	" " nr La Junta, Colo.
005	" " " Nepesta, Colo.
006	" " " Pueblo, Colo.
007	" " " Canon City, Colo.
008	" " " Salida, Colo.
009	" " below Leadville, Colo.
010	Purgatoire River nr Las Animas, Colo.
011	" " below Trinidad, Colo.
012	Apishapa River nr Fowler, Colo.
013	Huerfano River nr Boone, Colo.
014	Cucharas River below Walsenburg. Colo.
015	Fountain Creek at Pueblo, Colo.
016	" " below Colo. Springs, Colo.
017	" " nr Manitou, Colo.
018	Rio Grande east of Manassa, Colo.
019	" " at Alamosa, Colo.
020	South Platte nr Julesburg, Colo.
021	" " at Balzac, Colo.
022	" " nr Kersey, Colo.
023	" " at Henderson, Colo.
024	" " above Littleton, Colo.
025	" " at South Platte, Colo.
026	Cache La Poudre above Ft. Collins, Colo.
027	" " " nr Greeley, Colo.
028	Big Thompson nr mouth.
029	St. Vrain nr mouth.
030	" " at Weld-Boulder Co. Line.
031	" " below Longmont, Colo.
032	Left Hand Creek nr Niwot, Colo.
033	Boulder Creek at Boulder-Weld Co. Line.
034	Clear Creek nr mouth.
035	" " above Golden, Colo.
036	Bear Creek at Jefferson-Arapahoe Co. Line.
037	North Platte below Cowdrey, Colo.
038	Yampa River nr Milner, Colo.

NUMBER	LOCATION
039	Yampa River nr Maybell, Colo.
040	" " below Little Snake River.
041	Little Snake above Lily, Colo.
043	White River at Meeker, Colo.
044	" " " Rangely, Colo.
045	Colo. River nr Hot Sulphur, Colo.
046	" " " Dotsero, Colo.
047	" " at New Castle, Colo.
048	" " nr Cameo, Colo.
049	" " " Fruita, Colo.
050	" " " Loma, Colo.
052	Eagle River at Gypsum, Colo.
053	Roaring Fork at mouth.
054	Gunnison SE of Grand Junction, Colo.
055	Uncompahgre River at Delta, Colo.
056	Gunnison River nr Delta, Colo.
057	" " west of Gunnison, Colo.
058	Taylor River at Almont, Colo.
059	Tomichi Creek at Gunnison, Colo.
061	Dolores River at Gateway, Colo.
062	Meelmo Creek west of Cortez, Colo.
063	San Juan River nr State Line.
064	Mancos River three miles no. of State Line.
065	La Plata River no. of La Plata, Colo.
066	Animas River nr Bondad, Colo.
067	Los Pinos River nr La Boca, Colo.
068	San Juan River above Navajo Res.
069	Pieora River NE of Arboles, Colo.
070	Republican River below Bonny Res.
071	Arickaree River nr Wray, Colo.
072	Black Wolf Creek above mouth.
073	*Republican River nr Laird, Colo.
074	Gore Creek at mouth.
075	" " " Bighorn Subdiv.
076	Eagle River at Avon Bridge.
077	Ten Mile Creek at Kokomo, Colo.
078	East River at conflu. with Taylor.
079	Uncompahgre River at Ridgway, Colo.

NUMBER	LOCATION
080	Dolores River nr Dolores, Colo.
081	Animas River above Durango, Colo.
082	Animas River nr Silverton, Colo.
083	Eagle River nr Pando, Colo.
084	San Miguel at confl. with Dolores.
085	Dolores River at Bedrock, Colo.
086	St. Charles River so. of Baxter, Colo.
087	Rock Creek nr McCoy.
088	Yampa above Oak Creek.
089	Clear Creek at Wheat Ridge, Colo.
090	Arkansas at Catlin Canal.
091	Purgatoire River nr Segundo, Colo.
092	Apishapa River nr Aguilar.
093	Cucharas River at Walsenburg PWS Diver.
094	Huerfano River at Highway 85-87.
095	St. Charles above North St. Charles.
096	Adobe Creek above confl. with Ark. River.
097	Beaver Creek above confl. with Ark.
098	Blue River below Dillon Reservoir.
099	Blue River nr Kremmling, Colo.
100	No. Fork of Gunnison below Hotchkiss.
107	Saguache Creek nr Saguache, Colo.
108	Willow Creek above Creede.
109	Goose Creek at confl. with Rio Grande.
110	South Fork of Rio Grande.
111	Pinos Creek at Del Norte.
114	Big Thompson nr Loveland.
115	Blue River above Dillon Res.
116	Surface Creek below Eckert.
117	White River below Piceance Creek.
118	Cross Creek nr conflu. with Eagle River.
120	Michigan River at Walden.
121	Laramie River at State Line.
122	Bear Creek above Morrison.
124	Little Thompson nr Milliken.
125	Big Thompson nr Drake.
126	Cache La Poudre nr Ft. Collins.
127 →	So. Platte below Ft. Morgan.
128	So. Platte below Sterling.

COLORADO - EPA COOP STATIONS

STATION #	LOCATION
06720500	South Platte River, Henderson, Colo.
07133000	Arkansas River at Lamar, Colo.
07137500	Arkansas River nr Coolidge, Kans.
08251500	Rio Grande nr LoBatos, Colo.
09019000	Colo. River below Lake Granby.
09038500	Williams Fork below Williams Fork Res.
09057700	Blue River at mouth nr Kremmling, Colo.
09070400	Eagle River at mouth at Dotsero, Colo.
09085000	Roaring Fork River at Glenwood Springs, Colo.
09090800	Colo. River at Silt, Colo.
09093700	Colo. River nr De Beque, Colo.
09149500	Uncompahgre River at Delta.
09152500	Gunnison River nr Grand Junction, Colo.
09163500	Colo. River nr Colo-Utah Line.
09169500	Dolores River nr Bedrock, Colo.
09175500	San Miguel River at Naturita, Colo.
09177000	San Miguel River at Uravan, Colo.
09177100	San Miguel below Uravan.
09179500	Dolores River at Gateway, Colo.
09251000	Yampa River nr Maybell, Colo.
09260000	Little Snake River nr Lily. Colo.
09366500	La Plata River at Colo.-New Mexico Line.
09371000	Mancos River nr Towaoc, Colo.
09372000	McElmo Creek nr Colo.-Utah Line.

COLORADO USGS STATIONS

NUMBER	LOCATION
06707000	North Fork, South Platte River at South Platte.
06707455	South Platte River above South Platte.
06716000	South Platte River at Littleton, Colo.
06717000	Unnamed.
06719500	Unnamed.
06727500	Unnamed.
06728855	Boulder Creek below Boulder, Colo.
06731000	St. Vrain Creek at mouth nr Platteville, Colo.
06737500	Horsetooth Reservoir nr Ft. Collins, Colo.
06742500	Carter Lake nr Berthoud, Colo.
06744000	Big Thompson River at mouth nr La Salle, Colo.
06752500	Cache La Poudre River nr Greeley, Colo.
06754000	South Platte River nr Kersey, Colo.
06758500	South Platte River nr Weldona, Colo.
06760000	South Platte River nr Balzac, Colo.
06763991	South Platte River at Julesburg, Colo.
07079200	Unnamed - Arkansas drainage.
07081200	Arkansas River nr Leadville, Colo.
07083000	Halfmoon Creek nr Malta, Colo.
07086000	Arkansas River at Granite, Colo.
07096000	Arkansas River at Canon City, Colo.
07099200	Arkansas River nr Portland, Colo.
07099400	Arkansas River above Pueblo, Colo.
07119500	Apishapa River nr Fowler, Colo.
07128500	Purgatoire River nr Las Animas, Colo.
07130500	Arkansas River below John Martin.
08220000	Rio Grande nr Del Norte, Colo.
08223500	Rock Creek nr Monte Vista, Colo.
08227000	Saguache Creek nr Saguache, Colo.
08230500	Carnero Creek nr Lagarita, Colo.
09034500	Colorado River at Hot Sulfur Springs, Colo.
09049155	Ten Mil Creek above the West Fork.
0906900	Eagle River at Gypsum, Colo.
09070500	Colorado River nr Dotsero, Colo.
09071100	Colorado River nr Glenwood Springs, Colo.
09085000	Roaring Fork River at Glenwood Springs, Colo.
09095500	Colorado River nr Cameo, Colo.
09105000	Plateau Creek nr Cameo, Colo.
0914500	Uncompahgre River at Delta, Colo.
09152500	Gunnison River nr Grand Junction, Colo.
09251000	Yampa River, Maybell, Colo.
0926000	Little Snake River nr Lily, Colo.
09306210	Piceance Creek nr White River.
09346400	San Juan River nr Carracas, Colo.
09352900	Vallecito Creek nr Bayfield, Colo.
09354500	Los Pinos River at La Boca, Colo.

COLORADO

6. REJECT DATA

REJECT LIST

COLORADO — **STATE STATIONS**

Station #001 — 79/658 = 12% Rejects

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2553 ←→ 4782 (33 of 34)
69/02/20	01090 Zn	200 ug/1
68/10/02	"	300 "
69/04/22	"	300 "
70/01/07	"	100 "
70/03/04	"	120 "
70/05/07	"	280 "
70/11/09	"	130 "
68/10/02	00610 NH3	0.08 mg/1
69/08/11	"	0.08 "
70/01/07	"	0.16 "
68/06/12	31505 Tot Coli	49,000/100ML
68/08/07	"	3,480,000 "
69/05/26	"	109,000 "
70/06/09	"	2,780,000 "
70/07/14	"	2,221,000 "
70/10/05	"	30,000 "
70/12/15	"	30,000 "
68/08/07	31616 Fecal Coli	4,900 "
Throughout	00700 Turb	60 ←→ 1700 JTU (28 of 32)

Station #002 — 52/642 = 8% Rejects

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2893 ←→ 5011 (27 of 32)
70/01/07	01055 Mn	550 ug/1
70/09/15	"	1504 "
71/01/12	"	120 "
68/10/02	01090 Zn	200 "
70/07/13	"	600 "
70/09/15	"	100 "
70/11/10	"	170 "
68/10/02	00610 NH3	0.08 mg/1
69/02/18	"	0.25 "
69/05/27	"	0.08 "
71/07/20	"	0.08 "
70/07/13	31505 Tot Coli	130,000/100ML
71/07/20	"	22,000 "
Throughout	00700 Turb	63 ←→ 1000 JTU (12 of 29)

Station #003 — 64/645 = 10% Rejects

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2373 ←→ 4394 (21 of 34)
68/10/02	01090 Zn	300 ug/1
68/12/04	"	280 "
71/04/06	"	600 "
71/12/08	"	200 "
68/10/02	00610 NH3	0.29 mg/1
69/02/19	"	0.16 "
69/05/27	"	0.40 "
69/08/12	"	0.08 "
69/11/04	"	0.08 "
69/12/11	"	0.16 "
70/01/07	"	0.66 "
70/01/07	00720 CN	0.05 "
Throughout	31505 Tot Coli	22,000 ←→ 7,240,000/100ML (11 of 38)
68/02/09	31616 Fecal Coli	7,900
68/07/15	"	130,000
68/08/08	"	330,000/100ML
69/08/12	"	10,900
70/01/07	"	13,000
70/10/06	"	30,000
Throughout	00700 Turb	51 ←→ 2200 JTU (14 of 30)

Station #004 — 87/573 = 15% Rejects

Date	Storet # & Desc.	Value
70/01/07	01055 Mn	1,000 mg/1
72/05/24	"	150 "
70/01/07	01090 Zn	500 "
70/08/18	"	100 "
71/12/08	"	200 "
Throughout	00610 NH3	0.08 ←→ 1.07 (14 of 24)
70/01/70	00720 CN	0.05 mg/1
71/02/12	"	0.074 "
Throughout	31505 Tot Coli	22,000 ←→ 13,000,000/100ML (22 of 38)
"	31616 Fecal Coli	7,000 ←→ 22,100,000/100 ML (12 of 37)
Throughout	00700 Turb	72 ←→ 1500 JTU (32 of 32)

More than ten excesses in any parameter reported as a range (←→) with X excesses of Y values given in parentheses.

Pb = Lead	Hg = Mercury	Mn = Manganese
Cu = Copper	Zn = Zinc	Ag = Silver
Cd = Cadmium	CN = Cyanide	NH3 = Ammonia
	Cr = Chromium	

Station # 005 — 81/546 = 15% Rejects

Date	Storet # & Desc.	Value
68/12/04	01090 Mn	150 ug/1
69/03/25	"	350 "
69/04/22	"	300 "
69/12/12	"	250 "
70/01/07	"	700 "
70/04/01	"	350 "
70/05/07	"	150 "
72/01/18	"	200 "
69/03/25	01090 Zn	100 "
69/04/22	"	200 "
71/10/13	"	300 "
72/01/18	"	320 "
Throughout	00610 NH3	0.08 ←→ 2.90 (15 of 27)
70/01/07	00720 CN	0.17 mg/1
70/05/07	"	0.055 "
70/12/15	"	0.028 "
71/01/12	"	0.028 "
Throughout	31505 Tot Coli	22,000 ←→ 490,000/100ML (13 of 34)
68/01/10	31616 Fecal Coli	23,000/100ML
68/03/20	"	33,000 "
68/08/08	"	1,300,000 "
70/04/01	"	4,900 "
70/05/07	"	130,000 "
70/06/11	"	13,000 "
70/07/15	"	10,900 "
70/09/15	"	30,000 "
Throughout	00700 Turb	67 ←→ 3000 JTU (29 of 32)

NOTE: Number of reject values are greater than values on the water quality assessment form (in most cases) due to using a different period of record.

REJECT LIST

COLORADO (Cont.) **STATE STATIONS**

Station #006 **38/567 = 7% Rejects**

Date	Storet # & Desc.	Value
68/10/01	01090 Zn	200 ug/l
69/04/23	"	400 "
70/01/09	"	100 "
70/06/11	"	340 "
70/07/15	"	110 "
71/02/11	"	170 "
71/10/13	"	200 "
71/12/10	"	300 "
68/10/01	00610 NH_3	0.16 mg/l
68/11/14	"	0.15 "
69/05/28	"	0.08 "
69/09/24	"	0.16 "
69/11/20	"	0.49 "
70/08/19	"	0.44 "
70/12/16	"	0.08 "
71/03/05	"	0.15 "
71/12/10	"	0.17 "
68/08/15	31505 Tot Coli	130,000/100ML
69/11/20	"	1,600,000 "
70/05/07	"	220,000 "
70/06/11	"	49,000 "
70/08/19	"	348,000 "
69/11/20	31616 Fecal Coli	130,000 "
70/05/07	"	49,000 "
70/06/11	"	13,000 "
70/08/19	"	33,000 "
Throughout	00700 Turb	52 ⟷ 1000 JTU (12 of 32)

Station #007 **12/420 = 3% Rejects**

Date	Storet # & Desc.	Value
70/07/09	01090 Zn	160 ug/l
68/09/19	00610 NH_3	0.16 mg/l
68/10/01	"	0.16 "
70/04/03	"	0.08 "
68/09/19	31505 Tot Coli	240,000/100ML
68/10/01	"	3,480,000 "
69/03/20	"	109,000 "

Station #007 (Cont.)

Date	Storet # % Desc.	Value
70/08/20	31505 Tot Coli	33,000/100ML
70/10/07	"	30,000 "
70/10/07	31616 Fecal Coli	30,000 "
68/03/15	00700 Turb	95 JTU
70/07/09	"	140 "

Station #008 **17/572 = 3% Rejects**

Date	Storet # & Desc.	Value
69/02/03	01090 Zn	100 ug/l
70/03/12	"	80 "
70/04/13	"	50 "
70/10/01	"	60 "
70/10/15	"	120 "
71/09/20	"	140 "
72/03/06	"	130 "
68/10/01	00610 NH_3	0.16 mg/l
68/12/09	"	0.21 "
69/02/03	"	0.15 "
70/04/13	"	0.05 "
70/11/20	"	0.07 "
71/11/05	"	0.25 "
70/07/01	31505 Tot Coli	33,000/100ML
70/08/27	31616 Fecal Coli	4,900/100ML
69/01/29	00700 Turb	129 JTU
69/12/18	00300 D.O.	0.7 mg/l

Station #009 **56/580 = 10% Rejects**

Date	Storet # & Desc.	Value
68/06/26	01040 Cu	50 ug/l
Throughout	01055 Mn	150 ⟷ 500 ug/l (15 of 28)
	01090 Zn	130 ⟷ 720 ug/l (22 of 28)
70/11/13	01049 Pb	400 ug/l
Throughout	00610 NH_3	0.08 ⟷ 0.41 mg/l (14 of 24)
69/12/18	31505 Tot Coli	190,000/100ML
70/10/15	"	30,000 "
71/01/04	00400 pH	4.7

Station #010 **65/591 = 11% Rejects**

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2211 ⟷ 5110 mg/l (24 of 31)
68/03/20	01055 Mn	500 ug/l
68/12/04	"	250 "
69/02/19	"	400 "
70/01/07	"	600 "
70/03/31	"	150 "
70/05/07	"	200 "
71/04/06	"	600 "
71/10/13	"	150 "
72/01/18	"	150 "
68/12/04	01090 Zn	100 "
69/04/02	"	400 "
71/04/06	"	400 "
71/12/08	"	100 "
69/02/19	00610 NH_3	0.08 mg/l
69/08/12	"	0.08 "
69/11/04	"	0.08 "
69/12/10	"	0.08 "
70/01/07	"	0.49
68/08/08	31505 Tot Coli	330,000/100ML
69/08/12	"	1,600,000 "
69/09/23	"	1,600,000 "
70/01/07	"	920,000 "
69/08/12	31616 Fecal Coli	4,900 "
69/09/23	"	7,900 "
Throughout	00700 Turb	82 ⟷ 1715 JTU (17 of 30)

Station #011 **52/484 = 11% Rejects**

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2139 ⟷ 4003 JTU (22 of 26)
70/01/07	01055 Mn	120 ug/l
72/01/20	"	200 "
72/05/15	"	150 "
69/05/27	01090 Zn	1000 "
70/06/10	"	120 "
70/07/15	"	100 "

COLORADO (Cont.) STATE STATIONS

REJECT LIST

Station #011 (Cont.)

Date	Storet # & Desc.	Value
71/02/10	01090 Zn	260 ug/1
72/01/20	"	80 "
68/10/03	00610 NH_3	0.12 ug/1
69/05/27	"	0.08 "
69/11/04	"	0.08 "
70/01/07	"	0.25
Throughout	31505 Tot Coli	30,000 ⟷ 5,420,000/100ML (11 of 31)
68/03/06	31616 Fecal Coli	4,600/100ML
68/08/07	"	1,720,000 "
70/01/07	"	109,000 "
70/06/10	"	130,000 "
70/07/15	"	79,000 "
70/10/07	"	30,000 "
70/12/16	"	30,000 "

Station #012 70/501 = 14% Rejects

Date	Storet # & Desc.	Value
68/05/22	00515 TDS	3383 mg/1
68/07/16	"	2478 "
69/04/22	"	2804 "
70/01/06	"	2349 "
70/09/15	"	2943 "
71/10/13	"	2404 "
68/12/04	01055 Mn	150 ug/1
69/02/19	"	200 "
69/09/26	"	270 "
69/12/11	"	700 "
70/01/06	"	1000 "
70/04/01	"	300 "
71/04/06	"	150 "
70/03/04	01075 Ag	982 ug/1
68/10/02	01090 Zn	400 "
68/12/04	"	180 "

Station #012 (Cont.)

Date	Storet # & Desc.	Value
70/01/06	01090 Zn	100 ug/1
71/04/05	"	200 "
72/01/18	"	180 "
Throughout	00610 NH_3	0.08 ⟷ 4.0 mg/1 (12 of 26)
"	31505 Tot Coli	24,000 ⟷ 2,210,000/100ML (10 of 35)
68/08/08	31616 Fecal Coli	7,900/100ML
68/10/02	"	7,900 "
69/09/26	"	490,000 "
70/05/11	"	141,000 "
70/07/15	"	130,000 "
70/08/18	"	4,900 "
70/10/06	"	30,000 "
Throughout	00700 Turb	105 ⟷ 5000JTU (22 of 29)

Station #013 47/442 = 11% Rejects

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2280 ⟷ 5744 JTU (18 of 23)
69/02/19	01055 Mn	200 ug/1
69/08/13	"	400 "
69/12/11	"	130 "
70/01/06	"	900 "
70/07/15	"	120 "
70/07/15	01090 Zn	130 "
72/03/22	"	120 "
68/10/02	00610 NH_3	0.16 mg/1
69/08/13	"	0.08 "
70/10/06	"	0.08 "
69/08/13	31505 Total Coli	172,000/100ML
70/06/11	"	34,800 "
70/09/16	"	300,000 "
69/08/13	31616 Fecal Coli	13,000 "
Throughout	00700 Turb	54 ⟷ 600 JTU (15 of 23)

Station #014 48/496 = 10% Rejects

Date	Storet # & Desc.	Value
Throughout	00515 TDS	2271 ⟷ 6150 JTU (16 of 26)
71/12/02	01055 Mn	200 ug/1
69/04/23	01090 Zn	300 "
70/01/08	"	100 "
70/02/05	"	120 "
70/06/10	"	600 "
70/11/13	"	110 "
71/02/11	"	150 "
68/10/03	00610 NH_3	0.25 mg/1
69/03/20	"	0.40 "
69/05/23	"	0.08 "
70/01/03	"	0.10 "
70/12/16	"	0.25 "
70/02/11	"	0.20 "
70/12/16	31505 Tot Coli	300,000/100ML
71/01/04	"	30,000 "
71/02/11	"	30,000 "
69/04/23	31616 Fecal Coli	4,900 "
70/05/07	"	4,900 "
70/12/16	"	30,000 "
71/01/04	"	30,000 "
Throughout	00700 Turb	68 ⟷ 1100 JTU (12 of 23)

Station #015 76/545 = 14% Rejects

Date	Storet # & Desc.	Value
68/05/09	00515 TDS	2140 mg/1
68/07/16	"	2294 "
68/10/01	"	2303 "
69/04/23	"	2224 "
70/04/03	01055 Mn	100 ug/1
71/12/10	"	300 "
69/08/13	01090 Zn	200 "
71/04/13	"	400 "
72/03/22	"	110 "

COLORADO (Cont.) STATE STATIONS

REJECT LIST

Station #015 (Cont.)

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	0.08 ↔ 4.9 mg/l (15 of 28)
Throughout	31505 Tot Coli	22,000 ↔ 2,400,000/100ML (13 of 34)
69/07/16	31616 Fecal Coli	4,900/100ML
69/03/20	"	348,000 "
69/05/28	"	4,900 "
69/08/13	"	2,400.000 "
70/05/11	"	7,900 "
70/07/15	"	70,000 "
70/10/07	"	22,000,000 "
Throughout	00700 Turb	56 ↔ 1500 JTU (32 of 39)

Station #016

141/601 = 23% Rejects

Date	Storet # & Desc.	Value
68/09/19	01090 Zn	200 ug/l
71/02/11	"	240 "
72/03/23	"	270 "
Throughout	00610 NH_3	0.3 ↔ 18.5 mg/l (33 of 36)
69/04/23	00720 CN	0.036 mg/l
70/04/03	"	0.270 "
71/10/14	"	0.068 "
71/11/12	"	0.098 "
72/05/18	"	0.061 "
72/01/21	"	0.14 "
72/03/23	"	0.224 "
Throughout	00310 BOD	26 ↔ 87 mg/l (13 of 34)
Throughout	31505 Tot Coli (33 of 35)	22,000 ↔ 13,000,000/100ML
Throughout	31616 Fecal Coli	7,000 ↔ 5,420,000/100ML (21 of 32)
Throughout	00700 Turb	52 ↔ 610 JTU (26 of 34)

Station #017

13/576 = 3% Rejects

Date	Storet # & Desc.	Value
70/07/16	01145 Zn	160 ug/l
Throughout	00610 NH_3	0.08 ↔ 0.50 mg/l (10 of 28)
69/09/04	31515 Tot Coli	34,800/100ML
70/08/20	"	34,800/100ML
69/09/04	31616 Fecal Coli	7,900 "
68/08/15	00700 Turb	79 JTU
69/11/20	"	74 "
70/03/20	"	124 "
70/06/11	"	400 "
70/07/16	"	100 "

Station #018

17/448 = 4% Rejects

Date	Storet # & Desc.	Value
68/05/07	01055 Mn	150 ug/l
70/04/10	01090 Zn	640 "
71/05/19	"	80 "
68/09/19	00610 NH_3	0.25 mg/l
68/12/12	"	0.25 "
70/02/05	"	0.08 "
70/04/10	"	0.08 "
71/07/01	"	0.12 "
71/05/19	"	0.12 "
71/07/15	00610 NH_3	0.12 "
71/09/22	"	0.08 "
69/03/19	31505 Total Coli	22,100/100ML
70/10/14	"	30,000 "
69/03/19	31616 Fecal Coli	7.000 "
68/05/07	00700 Turb	80 JTU
68/08/07	"	52 "
70/09/09	"	280 "

Station #019

21/451 = 5% Rejects

Date	Storet # & Desc.	Value
71/06/03	01055 Mn	120 ug/l
69/01/29	01090 Zn	250 "
70/04/09	"	20 "
Throughout	00610 NH_3	0.08 ↔ 13.0 mg/l (13 of 21)

Station #019 (Cont.

Date	Storet # & Desc.	Value
70/09/09	31505 Tot Coli	30.000/100ML
70/10/14	"	30,000/100ML
70/09/09	31616 Fecal Coli	30,000/100ML
70/09/09	00700 Turb	85 JTU
71/04/20	"	250 "

Station #020

64/525 = 12% Rejects

Date	Storet # & Desc.	Value
68/08/07	01090 Zn	240 ug/l
69/04/25	"	300 "
70/01/27	"	100 "
70/04/16	"	340 "
70/05/20	"	50 "
70/06/15	"	500 "
71/04/14	"	300 "
Throughout	00610 NH_3	0.[illegible] ↔ 0.71 mg/l (13 of 24)
Throughout	31505 Tot Coli	22,000 ↔ 3,000,000/100ML (15 of 36)
Throughout	31616 Fecal Coli	7900 ↔ 3.000.000 (14 of 35)
Throughout	00070	53 ↔ 1750 JTU (15 of 31)

Station #021

47/507 = 9% Rejects

Date	Storet # & Desc.	Value
69/10/28	01055 Mn	170 ug/l
71/09/07	"	200 "
68/12/02	01090 Zn	100 "
69/02/05	"	200 "
69/06/02	"	100 "
70/04/16	"	220 "
70/06/15	"	30 "
71/02/08	"	120 "
Throughout	00610 NH_3	0.08 ↔ 1.9 mg/l (13 of 22)
"	31505 Tot Coli	22,000 ↔ 175,000/100ML (10 of 34)

COLORADO (Cont.) **STATE STATIONS**

REJECT LIST

Station #021 (Cont.)

Date	Storet # & Desc.	Value
68/04/25	31616 Fecal Coli	79,000/100ML
69/05/12	"	23,000 "
70/01/26	"	13,000 "
70/02/16	"	4,900 "
Throughout	00070 Turb	51 ←→ 525 JTU (12 of 27)

Station #022 66/462 = 14% Rejects

Date	Storet # & Desc.	Value
69/12/22	01055 Mn	180 ug/1
70/02/13	"	150 "
71/02/16	"	200 "
70/05/04	01090 Zn	70 "
71/02/16	"	280 "
72/05/22	"	420 "
Throughout	00610 NH_3	0.20 ←→ 4.5 mg/1 (20 of 24)
Throughout	31505 Tot Coli	22,000 ← → 16,000,000/100ML (17 of 26)
Throughout	31616 Fecal Coli	4900 ← → 5,420,000/100ML (14 of 26)
68/10/10	00070 Turb	70 JTU
69/05/16	"	430 "
69/06/05	"	84 "
69/07/11	"	53 "
70/04/03	"	53 "
70/05/04	"	600 "
70/07/01	"	160 "
70/12/29	"	72 "
72/01/26	"	51 "

Station #023 96/514 = 19% Rejects

Date	Storet # & Desc.	Value
71/04/15	01040 Cu	40 JTU
69/05/16	01055 Mn	150 ug/1
69/12/29	"	500 "
70/01/22	"	550 "
70/02/13	"	500 "

Station #023 (Cont.)

Date	Storet # & Desc.	Value
70/12/29	01055 Mn	300 ug/1
71/02/16	"	400 "
71/04/15	"	200 "
72/03/14	"	250 "
69/12/29	01090 Zn	200 "
70/01/22	"	200 "
70/02/13	"	100 "
70/05/04	"	400 "
70/07/02	"	20 "
71/02/16	01090 Zr	290 ug/1
72/03/04	"	310 "
Throughout	00610 NH_3	0.08 ←→ 16.0 mg/1 (26 of 26)
Throughout	31505 Total Coli	30,000 ←→ 33,000,000/100ML (22 of 30)
Throughout	31616 Fecal Coli	13,000 ←→ 109,000/100ML (16 of 29)
Throughout	00070 Turb	54/625 JTU (11 of 29)
68/01/02	00720 CN	0.03 mg/1
68/01/02	00300 DO	1.0 "
68/01/02	00310 BOD	7191 "
68/10/10	"	49 "
71/10/21	"	26 "

Station #024 26/457 = 6% Rejects

Date	Storet # & Desc.	Value
68/12/11	01055 Mn	700 ug/1
68/12/11	01090 Zn	560 "
70/04/28	"	760 "
70/05/20	"	90 "
70/07/23	"	70 "
Throughout	00610 NH_3	0.08 ←→ 0.80 mg/1 (11 of 22)
Throughout	00070 Turb	51 ←→ 700 JTU (10 of 24)

Station #025 13/342 = 4% Rejects

Date	Storet # & Desc.	Value
70/04/23	01090 Zn	550 ug/1
70/05/19	"	80 "
70/07/21	"	90 "
Throughout	00610 NH_3	0.08 ←→ 0.25 mg/1 (10 of 19)

Station #026 7/380 = 2% Rejects

Date	Storet # & Desc.	Value
68/11/08	00610 NH_3	0.08 mg/1
69/05/16	"	0.21 "
69/06/05	"	0.21 "
69/07/11	"	0.08 "
69/12/22	"	0.12 "
70/07/01	"	0.08 "
71/09/09	"	0.08 "

Station #027 97/484 = 20% Rejects

Date	Storet # & Desc.	Value
70/01/22	01055 Mn	200 ug/1
70/02/13	"	200 "
70/05/04	"	200 "
71/02/16	"	150 "
71/02/16	01049	310 "
72/02/22	"	300 "
Throughout	00610 NH_3	0.25 ←→ 3.7 mg/1 (24 of 25)
68/11/08	00300 DO	2.8 mg/1
71/10/22	"	2.0 "
68/01/02	00310 BOD	52 "
69/11/08	"	52 "
70/02/13	"	23 "
70/07/01	"	87 "
70/12/29	"	31 "
71/01/26	"	41 "
71/01/26	"	41 "
71/02/16	"	27 "
71/02/16	"	27 "
Throughout	31505 Total Coli	23,000 ←→ 13,000,000/100ML (24 of 28)

REJECT LIST

COLORADO (Cont.) **STATE STATIONS**

Station #027 (Cont.)

Date	Storet # & Desc.	Value
Throughout	31616 Fecal Coli	15,000 ⟷ 490,000/100ML (23 of 28)
68/11/08	00070 Turb	127 JTU
69/05/16	"	192 "
69/10/30	"	70 "
69/12/22	"	110 "
70/01/22	"	81 "
70/05/04	"	2500 "
70/07/01	"	100 "
70/12/29	"	300 "
71/11/30	"	61 "

Station #028

81/463 = 17% Rejects

Date	Storet # & Desc.	Value
68/04/29	00515 TDS	2139 mg/l
69/09/03	"	2266 "
70/04/03	"	2155 "
71/02/16	"	2110 "
72/01/27	"	2365 "
70/11/02	01040 Cu	80 ug/l
70/01/22	01055 Mn	200 "
70/02/13	"	200 "
70/12/29	"	250 "
71/02/16	"	180 "
72/01/27	"	150 "
69/06/05	01090 Zn	100 "
70/05/04	"	150 "
71/01/26	"	100 "
Throughout	00610 NH3	0.08 ⟷ 3.4 mg/l (18 of 23)
70/02/13	00300 D.O.	2.6 mg/l
68/01/02	00310 BOD	88 mg
70/02/13	"	31 "
71/01/26	"	37 "
71/01/26	"	37 "

Station #028 (Cont.)

Date	Storet # & Desc.	Value
Throughout	31505 Total Coli	22,000 ⟷ 700,000/100ML (19 of 26)
"	31616 Fecal Coli	4100 ⟷ 330,000/100ML (12 of 27)
Throughout	00070 Turb	51 ⟷ 280 JTU (13 of 25)

Station #029

77/548 = 14% Rejects

Date	Storet # & Desc.	Value
69/03/18	01090 Zn	400 ug/l
70/05/04	"	120 "
71/02/16	"	300 "
70/12/29	01075 Ag	3 "
Throughout	00610 NH3	0.08 ⟷ 3.7 mg/l (21 of 25)
"	31505 Total Coli	23,000 ⟷ 349,000/100ML (21 of 29)
"	31616 Fecal Coli	7400 ⟷ 130,000/100ML (16 of 29)
"	00070 Turb	51 ⟷ 410 JTU (15 of 26)

Station #030

28/129 = 22% Rejects

Date	Storet # & Desc.	Value
69/10/09	00070 Turb	215 JTU
69/10/30	"	87 "
68/07/03	00300 D.O.	2.2 mg/l
69/09/03	"	2.8 "
69/06/05	00610 NH3	2.0 mg/l
69/07/11	"	1.6 "
69/09/03	"	1.2 "
69/10/09	"	0.29 "
69/10/30	"	1.3 "
69/12/22	"	3.1 "

Station #030 (Cont.)

Date	Storet # & Desc.	Value
68/04/08	31505 Tot Coli	542,000/100ML
68/07/03	"	1,300,000 "
69/04/07	"	3,300,000 "
69/06/05	"	3,300,000 "
69/07/11		2,300,000 "
69/09/03	"	330,000 "
69/10/09	"	3,300,000 "
69/10/30	"	348,000 "
69/12/22	"	49,000 "
68/04/08	31616 Fecal Coli	542,000 "
68/07/03	"	1,300,000 "
69/04/07	"	2,300,000 "
69/06/05	"	490,000 "
69/07/11	"	1,300,000 "
69/09/03	"	330,000 "
69/10/09	"	490,000 "
69/10/30	"	79,000 "
69/12/22	"	13,000 "

Station #031

48/357 = 13% Rejects

Date	Storet # & Desc.	Value
70/07/01	01090 Zn	[illegible] ug/l
71/02/16	"	220
1/68-Present	00610 NH3	0.10 ⟷ 8.1 mg/l (15 of 18)
" "	31505 Total Coli	22,000 ⟷ 542,000/100ML (15 of 17)
69/09/03	31616 Fecal Coli	17,000/100ML
69/10/09	"	70,000 "
70/03/16	"	3,400 "
70/05/04	"	7,000 "
70/07/01	"	13,000 "
70/12/29	"	30,000 "
71/02/16	"	15,000 "
71/11/15	"	24,000 "
69/09/03	00070 Turb	52 JTU
69/10/30	"	102

REJECT LIST

COLORADO (Cont.) **STATE STATIONS**

Station #031 (Cont.)

Date	Storet # & Desc.	Value
70/01/23	00070 Turb	52 JTU
70/04/03	"	700 "
70/07/01	"	450 "
70/09/18	"	112 "
71/08/03	"	120 "
72/04/24	"	141 "

Station #033 43/494 = 9% Rejects

Date	Storet # & Desc.	Value
70/07/01	01090 Zn	80 ug/1
71/02/16	"	140 "
72/03/14	"	50 "
Throughout	00610 NH_3	0.08 ←→ 11.0mg/1 (23 of 23)
69/12/22	31505 Total Coli	22,100/100ML
70/04/03	"	33,000 "
70/07/01	"	33,000 "
71/09/09	"	22,000 "
69/07/11	31616 Fecal Coli	13,000 "
69/12/22	"	14,100 "
70/04/03	"	13,000 "
71/09/09	"	22,000 "
68/07/03	00070 Turb	92 JTU
69/06/05	"	193 "
69/10/30	"	76 "
70/04/30	"	420 "
70/05/04	"	63 "
70/07/01	"	155 "
71/08/03	"	98 "
71/09/09	"	110 "
72/05/23	"	75 "

Station #034 76/449 = 17% Rejects

Date	Storet # & Desc.	Value
72/03/14	[illegible] Cu	40 ug/1
69/12/29	01[illegible] Mn	700 "
70/01/22	"	200 "
70/02/13	"	850 "
70/12/29	"	1000 "
71/02/16	"	1000 "
71/04/15	"	220 "
69/06/05	01090 Zn	100 "
69/12/29	"	300 "
70/01/22	"	100 "
71/02/16	"	520 "
Throughout	00610 NH_3	0.08 ←→ 8.6mg/1 (20 of 22)
"	31505 Total Coli	22,000 ←→ 1,720,000/100ML (21 of 27)
"	31616 Fecal Coli	4900 ←→ 172,000/100ML (13 of 27)
"	00070 Turb	50 ←→ 910 JTU (11 of 24)

Station #035 75/520 = 14% Rejects

Date	Storet # & Desc.	Value
70/02/19	01040 Cu	100 ug/1
70/03/19	"	60 "
70/05/20	"	140 "
70/07/09	"	800 "
70/02/16	"	60 "
Throughout	01055 Mn	150 ←→ 2000mg/1 (22 of 28)
"	01090 Zn	100 ←→ 800mg/1 (16 of 26)
"	00610 NH_3	0.08 ←→ 0.60mg/1 (21 of 25)

Station #035 (Cont.

Date	Storet # & Desc.	Value
69/04/21	00300 DO	2.6 mg/1
69/05/29	"	2.6 "
69/06/20	"	2.7 "
70/09/24	31505 Total Coli	30,000/100ML
69/02/26	00070 Turb	132 JTU
69/05/29	"	78 "
69/10/30	"	100 "
70/03/19	"	56 "
70/04/29	"	98 "
70/06/25	"	110 "
70/09/24	"	70 "

Station #036 32/428 = 7% Rejects

Date	Storet # & Desc.	Value
70/04/28	01090 Zn	700 ug/1
70/07/23	"	80 "
70/11/05	"	150 "
71/02/16	"	140 "
71/11/24	"	800 "
Throughout	00610 NH_3	0.08 ←→ 0.80mg/1 (18 of 24)
69/05/29	31505 Total Coli	130,000/100ML
69/06/20	"	130,000 "
69/12/03	"	34,300 "
70/07/23	"	23,000 "
70/09/24	"	30,000 "
69/05/29	31616 Fecal Coli	13,000 "
69/12/03	"	7,900 "
70/04/28	00070 Turb	110 JTU
70/09/24	"	85 "

Station #037 22/522 = 4% Rejects

Date	Storet # & Desc.	Value
70/05/25	01090 Zn	40 ug/1
70/06/15	00610 NH_3	0.08 ←→ .0.33mg/1 (16 of.23)

REJECT LIST

COLORADO (Cont.) STATE STATIONS

Station #037 (Cont.)

Date	Storet # & Desc.	Value
70/11/09	31505 Total Coli	330,000/100ML
	"	30,000
68/06/04	00070 Turb	53 JTU
70/04/06	"	88 "
72/05/08	"	145 "

Station #038 22/523 = 4% Rejects

Date	Storet # & Desc.	Value
70/05/26	01090 Zn	90 ug/1
72/05/08	"	180 "
Throughout	00610 NH3	0.08↔0.41mg/1 (17 of 25)
68/11/26	31505 Total Coli	23,000/100ML
69/04/14	00070 Turb	110 JTU
72/04/06	"	160 "

Station #039 30/545 = 6% Rejects

Date	Storet # & Desc.	Value
70/07/07	01040 Cu	2800 ug/1
70/05/26	01090 Zn	220 "
70/08/11	"	80 "
71/02/02	"	90 "
72/05/09	"	110 "
Throughout	00610 NH3	0.08↔0.21mg/1 (15 of 25)
68/04/17	00070 Turb	320 JTU
68/06/06	"	53 "
69/04/15	"	390 "
69/05/20	"	85 "
69/06/17	"	450 "
69/09/10	"	53 "
70/03/11	"	300 "
70/04/08	"	950 "
70/07/07	"	1200 "
72/06/06	"	103 "

Station #040 39/512 = 8% Rejects

Date	Storet # & Desc.	Value
69/04/15	01075	5 ug/1
70/05/26	01090 Zn	200 "
70/08/11	"	110 "
70/10/14	"	90 "
71/02/02	"	140 "
72/06/06	"	130 "
Throughout	00610 NH3	0.08↔0.25mg/1 (11 of 25)
"	00070 Turb	55 ↔1200 JTU (22 of 29)

Station #041 48/536 = 9% Rejects

Date	Storet # & Desc.	Value
69/09/10	01090 Zn	200 ug/1
70/04/08	"	830 "
70/05/26	"	280 "
70/08/11	"	80 "
70/09/10	"	1250 "
71/02/02	"	170 "
72/05/09	"	80 "
Throughout	00610 NH3	0.08↔0.25mg/1 (14 of 24)
70/10/14	31505 Total Coli	30,000/100ML
70/12/02	"	30,000 "
Throughout	00070 Turb	86 ↔5000 JTU (25 of 29)

Station #043 11/482 = 2% Rejects

Date	Storet # & Desc.	Value
70/01/15	01090 Zn	100 ug/1
70/03/11	"	100 "
70/06/16	"	30 "
71/02/02	"	270 "
71/03/09	"	70 "
68/10/15	00610 NH3	0.16 mg/1
71/10/05	"	0.08 "
69/09/10	31505 Total Coli	54,200/100ML
69/04/15	00070 Turb	70 JTU
69/05/20	"	52 "
69/06/17	"	52 "

Station #044 41/515 = 8% Rejects

Date	Storet # & Desc.	Value
68/07/24	01090 Zn	400 ug/1
69/11/05	"	300 "
70/01/15	"	100 "
70/02/11	"	120 "
70/04/08	"	70 "
70/06/16	"	300 "
70/09/10	"	60 "
70/10/14	"	150 "
69/09/10	01055 Mn	400 "
68/10/15	00610 NH3	0.08 mg/1
69/02/19	"	0.08 "
69/07/10	"	0.27 "
70/02/11	"	0.08 "
70/03/11	"	0.21 "
70/05/26	"	0.12 "
70/09/10	"	0.15 "
71/10/05	"	0.08 "
68/04/17	31505 Total Coli	25,000/100ML
68/06/06	"	23,000 "
68/07/24	"	33,000 "
68/08/28	"	33,000 "
69/09/10	31616 Fecal Coli	4,900 "
Throughout	00070 Turb	81↔5000 JTU (19 of 27)

Station #045 24/530 = 5% Rejects

Date	Storet # & Desc.	Value
69/05/19	01090 Zn	200 ug/1
70/05/25	"	200 "
Throughout	00610 NH3	0.03↔0.70 mg/1 (19 of 23)
70/03/11	31505 Total Coli	34,800/100ML
68/04/16	00070 Turb	144 JTU
72/01/24	"	55.1 JTU

COLORADO (Cont.) STATE STATIONS

REJECT LIST

Station #046 24/564 = 4% Rejects

Date	Storet # & Desc.	Value
68/06/06	01090 Zn	500 ug/1
70/04/10	"	110 "
70/05/14	"	140 "
71/02/04	"	90 "
71/09/16	"	100 "
Throughout	00610 NH3	0.08←→0.30mg/1 (12 of 26)
68/06/06	00070 Turb	220 JTU
69/05/22	"	89 "
69/06/20	"	58 "
70/04/10	"	500 "
70/05/14	"	143 "
72/03/09	"	149 "
70/06/18	00400 pH	9.6

Station #047 37/565 = 7% Rejects

Date	Storet # & Desc.	Value
70/04/09	01090 Zn	280 ug/1
70/05/15	"	110 "
70/07/03	"	200 "
70/08/12	"	160 "
Throughout	00610 NH_3	0.05←→0.28mg/1 (11 of 27)
68/06/04	31505 Total Coli	27,800/100ML
68/07/24	"	172,000 "
68/09/16	"	23,000 "
68/11/21	"	23,000
69/09/11	"	240,000 "
70/07/08	"	24,000 "
70/08/12	"	23,000 "
70/12/02	"	30,000 "
68/01/04	31616 Fecal Coli	4,900 "
68/06/04	"	10,900 "
68/09/16	"	7,900 "
68/11/21	"	22,000 "
69/09/11	"	33,000 "
70/08/12	"	23,000 "

Station #047 (Cont.)

Date	Storet # & Desc.	Value
68/06/04	00070 Turb	150 JTU
69/05/20	"	70 "
69/06/19	"	60 "
70/03/11	"	96 "
70/04/09	"	625 "
70/05/15	"	125 "
70/12/02	"	53 "
71/02/03	"	74 "
72/03/08	"	360 "

Station #048 43/571 = 8% Rejects

Date	Storet # & Desc.	Value
68/11/21	01090 Zn	140 ug/1
70/03/11	"	100 "
70/04/22	"	850 "
70/05/15	"	150 "
70/08/12	"	170 "
71/02/03	"	140 "
Throughout	00610 NH_3	0.08←→1.40mg/1 (19 of 25)
69/05/20	31616 Fecal Coli	10,900/100ML
Throughout	00070 Turb	52←→1000 JTU (17 of 29)

Station #049 84/586 = 14% Rejects

Date	Storet # & Desc.	Value
70/02/03	01055 Mn	700 ug/1
68/02/20	01090 Zn	200 "
68/10/16	"	340 "
69/04/16	"	180 "
70/04/22	"	400 "
70/06/10	"	280 "
70/08/11	"	160 "
Throughout	00610 NH_3	0.08←→1.2mg/1 (18 of 24)
Throughout	31505 Total Coli	22,000← →1,090,000/100ML (21 of 36)

Station #049 (Cont.)

Date	Storet # & Desc.	Value
Throughout	31616 Fecal Coli	4900← →30,000/100ML (15 of 34)
"	00070 Turb	52←→1250 JTU (22 of 29)
72/03/07	00400 pH	9.6

Station #050 82/621 = 13% Rejects

Date	Storet # & Desc.	Value
68/09/17	01090 Zn	200 ug/1
68/10/16	"	440 "
69/10/01	"	300 "
70/03/10	"	160 "
70/04/22	"	230 "
70/05/13	"	160 "
70/08/11	"	100 "
Throughout	00610 NH_3	0.08←→1.2mg/1 (17 of 25)
"	31505 Total Coli	22,000← →330,000/100ML (22 of 37)
"	31616 Fecal Coli	4900← →49,000/100ML (12 of 35)
"	00700 Turb	65←→1600 JTU (24 of 31)

Station #052 39/534 = 7% Rejects

Date	Storet # & Desc.	Value
68/11/21	01055 Mn	200 ug/1
69/02/20	"	600 "
69/12/05	"	300 "
70/01/16	"	170 "
71/11/03	"	200 "
72/01/27	"	350 "
Throughout	01090 Zn	100←→420 ug/1 (14 of 29)

REJECT LIST

COLORADO (Cont.) **STATE STATIONS**

Station #052 (Cont)39/584 = 7% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	0.08↔0.25mg/1 (12 of 27)
68/05/06	00700 Turb	260 JTU
69/05/22	"	63 "
69/09/10	"	56 "
70/03/12	"	51 "
70/04/10	"	105 "
70/05/15	"	133 "
72/03/09	"	535 "

Station #053 17/572 = 3% Rejects

Date	Storet # & Desc.	Value
70/04/10	01090 Zn	100 ug/1
70/05/15	"	740 "
70/07/08	"	100 "
68/09/16	00610 NH_3	0.08mg/1
69/02/19	"	0.08 "
69/06/19	"	0.08 "
70/04/10	"	0.08 "
70/07/08	"	0.05 "
70/11/19	"	0.12 "
71/11/03	"	0.20 "
72/01/27	"	0.16 "
69/09/02(?)	00300 DO	2.9mg/1
70/12/03	31505 Tot Coli	30.000#/100ML
68/06/06	00070 Turb	200 JTU
68/09/16	"	76 "
69/05/22	"	56 "
70/05/15	"	81 "

Station #054 42/597 = 7% Rejects

Date	Storet # & Desc.	Value
69/05/17	01090 Zn	200 ug/1
68/10/16	"	660 "
69/10/01	"	200 "
70/04/23	"	2090 "
70/08/12	"	160 "
71/02/03	"	120 "
Throughout	00610 NH_3	0.08↔0.50mg/1 (11 of 26)

Station #054 (Cont.)

Date	Storet # & Desc.	Value
68/08/13	31505 Tot Coli	23,000#/100ML
70/02/04	"	240,000 "
70/10/20	"	24,000 "
70/11/18	"	30,000 "
70/12/08	"	30,000 "
71/01/13	"	300,000 "
70/02/04	31616 Fecal Coli	92,000 "
70/10/20	"	24,000 "
70/11/18	"	30,000 "
70/12/08	"	30,000 "
71/01/13	"	30,000 "
Throughout	00070 Turb	51↔650 JTU (14 of 30)

Station #055 43/566 = 8% Rejects

Date	Storet # & Desc.	Value
68/02/20	00515 TDS	2342mg/1
68/03/05	"	2221 "
69/03/04	"	2107 "
68/09/17	01090 Zn	200 ug/1
68/10/16	"	200 "
69/05/21	"	200 "
69/10/01	"	300 "
70/01/15	"	200 "
70/04/23	"	140 "
71/02/03	"	200 "
71/12/08	"	200 "
68/09/17	00610 NH_3	0.25mg/1
68/10/16	"	0.21 "
69/06/18	"	0.12 "
68/08/15	31505 Tot Coli	33,000#/100ML
69/09/03	"	23,000 "
70/09/30	"	30,000 "
70/11/18	"	30,000 "
70/12/08	"	300,000 "
72/01/19	"	24,000 "
Throughout	00070 Turb	52↔1000 JTU (27 of 30)
69/07/24	31606 Fecal Coli	109000#/100 ML

Station #056 22/594 = 4% Rejects

Date	Storet # & Desc.	Value
68/10/16	01090 Zn	100 ug/1
70/04/23	"	80 "
71/02/03	"	100 "
68/09/17	00610 NH_3	0.25mg/1
68/10/16	"	0.25 "
69/06/18	"	0.15 "
70/08/12	"	0.08 "
70/10/20	"	1.0 "
71/10/06	"	0.08 "
71/11/04	"	0.16 "
68/08/15	31505 Tot Coli	24,000#/100ML
Throughout	00070 Turb	70↔600 JTU (11 of 30)

Station #057 20/594 = 4% Rejects

Date	Storet # & Desc.	Value
69/12/18	01090 Zn	700 ug/1
70/09/30	"	80 "
71/05/19	"	70 "
Throughout	00610 NH_3	0.08↔0.62mg/1 (11 of 24)
69/09/04	00300 DO	1.6mg/1
68/10/01	31505 Tot Coli	33,000#/100ML
68/12/10	"	79,000 "
69/03/17	"	35,000 "
70/07/09	"	34,800 "
70/09/30	"	30,000 "

Station #058 5/537 = 1% Rejects

Date	Storet # & Desc.	Value
68/10/01	00610 NH_3	0.21mg/1
68/12/06	"	0.25 "
69/07/62	"	0.08 "
70/04/14	"	0.08 "
71/09/21	"	0.45 "

COLORADO (Cont.) STATE STATIONS

REJECT LIST

Station #059 14/532 = 3% Rejects

Date	Storet # & Desc.	Value
70/06/02	01090 Zn	50 ug/l
68/10/01	00610 NH_3	0.25 mg/l
68/12/10	"	0.16 "
69/07/03	"	0.21 "
70/03/12	"	0.05 "
70/04/14	"	1.80 "
70/06/02	"	0.20 "
70/07/09	"	0.12 "
71/09/21	"	0.49 "
69/09/04	00300 DO	1.1 mg/l
70/09/30	31505 Tot Coli	300,000/100ML
68/12/10	00070 Turb	125 JTU
70/04/14	"	63 "
71/05/19	"	63 "

Station #061 64/585 = 11% Rejects

Throughout	00515 TDS	2102←→4029 (13 of 32)
70/12/08	01055 Mn	150 ug/l
68/10/16	01090 Zn	220 "
68/11/20	"	300 "
Throughout	00610 NH_3	0.08←→18.5 mg/l (25 of 27)
68/02/20	00310 BOD	48 mg/l
68/08/13	31505 Tot Coli	23,000/100ML
70/05/10	"	34,800 "
Throughout	00070 Turb	58←→5000 JTU (20 of 28)

Station #062 99/596 = 17% Rejects

Throughout	00515 TDS	2114←→5221 (21 of 28)
70/02/05	01055 Mn	420 ug/l
71/02/24	"	150 "
68/07/09	01090 Zn	300 "
68/09/18	"	200 "

Station #062 (Cont.)

Date	Storet # & Desc.	Value
69/02/05	01090 Zn	100 ug/l
70/06/03	"	40 "
71/02/24	"	800 "
71/08/17	"	30 "
Throughout	00610 NH_3	0.08←→0.49 mg/l (10 of 23)
"	31505 Tot Coli	22,000←→542,000/100 ML (19 of 29)
"	31616 Fecal Coli	7900←→1,750,000 " (16 of 28)
"	00070 Turb	52←→2500 JTU (25 of 27)

Station #063 50/526 = 10% Rejects

70/06/04	01090 Zn	70 ug/l
70/11/18	"	600 "
71/05/18	"	50 "
71/08/18	"	150 "
68/09/18	00610 NH_3	0.23 mg/l
68/11/19	"	0.08 "
68/12/11	"	0.25 "
69/02/05	"	0.06 "
70/01/19	"	0.05 "
70/11/18	"	0.07 "
71/09/23	"	0.08 "
68/05/14	31505 Tot Coli	34,000/100 ML
68/08/13	"	49,000 "
68/09/18	"	79,000 "
69/07/01	"	49,000 "
70/08/25	"	24,000 "
70/11/18	"	30,000 "
68/04/17	31616 Fecal Coli	4,900 "
68/08/13	"	13,000 "
69/02/05	"	7,000 "
69/07/01	"	10,900 "
69/09/16	"	4,900 "
69/12/16	"	4,600 "
70/02/05	"	5,420 "
Throughout	00070 Turb	75←→2000 JTU (26 of 27)

Station #064 44/496 = 9% Rejects

Date	Storet # & Desc.	Value
68/11/19	01090 Zn	1600 ug/l
70/01/09	"	200 "
70/04/17	"	40 "
70/09/29	"	780 "
70/11/18	"	600 "
71/02/24	"	200 "
71/05/18	"	120 "
71/09/23	"	130 "
68/01/23	00515 TDS	2159 mg/l
68/09/18	"	2205 "
69/04/05	"	3140 "
70/01/09	"	2290 "
71/01/07	"	2278 "
70/01/09	01055 Mn	170 "
68/09/13	00610 NH_3	0.21 "
69/07/05	"	0.16 "
69/03/13	"	0.08 "
69/10/21	"	0.25 "
70/01/09	"	0.16 "
70/02/05	"	0.32 "
71/09/23	"	0.08 "
71/01/07	31505 Tot Coli	30,000/100 ML
Throughout	00070 Turb	56←→1500 JTU (22 of 27)

Station #065 27/551 = 5% Rejects

68/06/17	00515 TDS	4076 mg/l
68/05/14	"	2495 "
68/09/18	"	4878 "
68/11/19	"	2115 "
70/07/07	"	3227 "
71/07/14	"	4725 "
71/08/18	"	4051 "
72/03/22	"	4200 "
70/06/25	01055 Mn	300 ug/l
69/02/10	01090 Zn	200 "
69/02/05	"	200 "
70/06/04	"	40 "

COLORADO (Cont.) **STATE STATIONS**

REJECT LIST

Station #065 (Cont.)

Date	Storet # & Desc.	Value
71/02/24	01090 Zn	200 ug/1
71/06/18	"	130 "
69/09/18	00610 NH_3	0.16 mg/1
68/12/11	"	0.08 "
69/02/05	"	0.16 "
70/02/05	"	0.25 "
71/09/23	"	0.33 "
68/05/14	00070 Turb	900 JTU
68/08/13	"	410 "
68/11/19	"	65 "
69/03/19	"	1200 "
69/04/29	"	380 "
70/02/05	"	240 "
70/07/07	"	73 "
72/04/19	"	120 "

Station #066 17/514 = 3% Rejects

70/06/04	01090 Zn	80 ug/1
71/09/23	"	180 "
68/12/11	00610 NH_3	0.16 mg/1
70/01/09	"	0.08 "
70/02/05	"	0.08 "
70/03/26	"	0.12 "
71/02/24	"	0.12 "
71/03/23	"	0.16 "
71/12/15	"	0.12 "
68/05/14	00070 Turb	350 JTU
68/08/13	"	55 "
69/03/19	"	155 "
70/01/09	"	133 "
70/03/26	"	1100 "
71/05/18	"	85 "
71/08/18	"	280 "
72/04/19	"	198 "

Station #067 25/533 = 5% Rejects

Date	Storet # & Desc.	Value
70/04/16	01090 Zn	70 ug/1
70/06/04	"	60 "
Throughout	00610 NH_3	0.03←→0.40 mg/1 (12 of 16)
68/08/13	31505 Tot Coli	23,000/100 ML
Throughout	00070 Turb	50←→430 JTU (10 of 30)

Station #068 22/526 = 4% Rejects

69/02/05	01090 Zn	100 ug/1
70/06/04	"	40 "
71/05/18	"	50 "
68/09/18	00610 NH_3	0.15 mg/1
68/12/11	"	0.08 "
69/02/05	"	0.12 "
69/03/19	"	0.40 "
70/04/16	"	0.08 "
70/11/18	"	0.08 "
71/02/24	"	0.08 "
70/08/25	31505 Tot Coli	24,000/100 ML
Throughout	00070 Turb	85←→700 JTU (11 of 30)

Station #069 19/522 - 2% Rejects

72/03/21	01055 Mn	150 ug/1
69/02/05	01090 Zn	420 "
70/06/04	"	20 "
71/05/18	"	100 "
68/09/18	00610 NH_3	0.70 mg/1
68/12/11	"	0.08 "
69/02/05	"	0.08 "
70/03/26	"	0.08 "
70/04/16	"	0.12 "
68/03/13	00070 Turb	75 JTU
68/04/18	"	405 "

Station #069 (Cont.)

Date	Storet # & Desc.	Value
68/05/14	00070 Turb	130 JTU
68/08/13	"	72 "
69/03/19	"	150 "
70/03/26	"	113 "
70/04/16	"	83 "
71/08/18	"	525 "
72/04/20	"	87 "
69/12/16	00400 pH	2.6

Station #070 21/527 = 4% Rejects

70/07/28	01055 Mn	150 ug/1
69/10/29	01090 Zn	200 "
70/01/28	"	130 "
70/04/17	"	140 "
70/11/05	"	240 "
71/02/09	"	210. "
69/09/05	00610 NH_3	0.60 mg/1
70/06/16	"	0.16 "
70/07/28	"	0.45 "
70/10/06	"	0.09 "
72/02/23	"	0.08 "
70/07/28	31505 Tot Coli	240,000/100 ML
70/09/15	"	30,000 "
68/08/07	00070 Turb	65 JTU
68/09/11	"	175 "
68/11/07	"	55.5 "
69/04/25	"	54 "
69/06/13	"	82 "
69/09/05	"	110 "
69/10/29	"	53 "
70/02/17	"	67 "

REJECT LIST

COLORADO (Cont.) STATE STATIONS

Station #071 53/566 = 9% Rejects

Date	Storet # & Desc.	Value
71/02/09	00515 TDS	2323 mg/1
68/12/03	01055 Mn	900 ug/1
71/01/05	"	350 "
Throughout	01090 Zn	50 ←→ 600 ug/1 (10 of 28)
"	00610 NH_3	0.08 ←→ 0.66 mg/1 (12 of 23)
68/06/12	31505 Tot Coli	22,100/100 ML
71/01/05	"	30,000 "
71/10/19	"	220.000 "
71/11/17	"	88,000 "
68/09/11	31616 Fecal Coli	4,900 "
69/06/03	"	13,000 "
70/06/16	"	4,600 "
71/10/19	"	220,000 "
Throughout	00070 Turb	52 ←→ 750 JTU (20 of 30)

Station #072 13/489 = 3% Rejects

Date	Storet # & Desc.	Value
69/04/25	01090 Zn	100 ug/1
70/11/05	"	140 "
71/02/09	"	80 "
71/05/19	"	50 "
72/02/23	"	70 "
68/12/03	00610 NH_3	0.16 mg/1
69/10/29	"	00.08 "
70/04/17	"	0.12 "
70/06/15	"	0.41 "
70/07/28	"	0.60 "
70/11/05	"	0.23 "
71/01/05	"	1.08 "
72/02/23	"	0.08 "

Station #073 20/598 = 3% Rejects

Date	Storet # & Desc.	Value
69/04/25	01090 Zn	100 ug/1
69/05/13	"	200 "
69/10/28	"	200 "

Station #073 (Cont.)

Date	Storet # & Desc.	Value
70/04/17	01090 Zn	120 ug/1
71/02/09	"	100 "
72/05/09	"	130 "
69/09/05	00610 NH_3	0.16 mg/1
70/07/28	"	0.20 "
70/11/05	"	0.05 "
70/09/15	31505 Tot Coli	30,000/100 ML
70/11/05	"	30,000 "
71/01/05	"	30,000 "
68/09/11	31616 Fecal Coli	4,900 "
69/09/05	"	4,900 "
68/03/19	00070 Turb	100 JTU
68/06/12	"	55 "
68/08/07	"	86 "
68/12/03	"	70 "
69/04/25	"	63 "
71/04/13	"	56 "

Station #074 29/707 = 4% Rejects

Date	Storet # & Desc.	Value
70/05/15	01090 Zn	50 ug/1
Throughout	00610 NH_3	0.08 ←→ 1.64 mg/1 (21 of 35)
69/09/02	31505 Tot Coli	24,000/100 ML
68/03/28	31616 Fecal Coli	17,200 "
69/09/02	00700 Turb	64 JTU
70/10/01	"	82 "
69/07/25	00400 pH	10.0
69/09/72	"	10.0
69/10/02	"	9.7

Station #075 9/527 = 2% Rejects

Date	Storet # & Desc.	Value
70/04/10	01090 Zn	200 ug/1
70/05/15	"	500 "
68/09/16	00610 NH_3	0.16 mg/1
68/10/17	"	0.24 "
69/05/20	"	0.12 "
70/03/12	"	0.27 "

Station #075 (Cont.)

Date	Storet # & Desc.	Value
70/06/18	00610 NH_3	0.06 mg/1
70/07/08	"	0.25 "
70/10/01	00070 Turb	98 JTU

Station #076 47/346 = 14% Rejects

Date	Storet # & Desc.	Value
Throughout	01055 Mn	250 ←→ 2250 ug/1 (14 of 17)
"	01090 Zn	90 ←→ 1600 ug/1 (17 of 18)
70/11/20	01049 Pb	320 ug/1
70/12/02	"	500 "
Throughout	00610 NH_3	0.08 ←→ 0.68 mg/1 (11 of 14)
71/12/03	00720 CN	0.036 mg/1
70/07/09	31505 Tot Coli	72,400/100 ML
70/10/22	"	30,000 "

Station #077 33/304 = 11% Rejects

Date	Storet # & Desc.	Value
70/06/01	01040 Cu	50 ug/1
70/11/12	01049 Pb	240 "
70/12/02	"	400 "
Throughout	01055 Mn	120 ←→ 5100 ug/1 (10 of 17)
70/01/05	01090 Zn	300 ug/1
70/04/13	"	66 "
70/06/01	"	1070 "
70/07/02	"	500 "
70/08/27	"	230 "
70/10/18	"	620 "
71/04/22	"	720 "
71/11/05	"	500 "
72/01/21	"	440 "
71/02/23	71900 Hg	20 "
71/07/12	"	120 "
71/09/20	"	24 "
70/04/13	00610 NH_3	0.03 mg/1
70/05/01	"	0.49 "

REJECT LIST

COLORADO (Cont.) STATE STATIONS

Station #077 (Cont.)

Date	Storet # & Desc.	Value
70/07/02	00610 NH_3	0.12 mg/l
70/10/15	"	0.08 "
71/11/05	"	0.12 "
72/05/16	"	2.5 "
70/06/01	00720 Cn	0.091 "
72/06/13	"	0.1060 "

Station #078 8/470 = 2% Rejects

Date	Storet # & Desc.	Value
69/12/18	01055 Mn	150 ug/l
70/11/20	01090 Zn	120 "
71/11/05	"	90 "
68/10/01	00610 NH_3	0.08 mg/l
70/04/14	"	0.08 "
71/67/12	"	0.16 "
71/09/21	"	0.45 "
68/12/10	00070 Turb	72 JTU

Station #079 16/419 = 4% Rejects

Date	Storet # & Desc.	Value
69/09/30	01055 Mn	130 ug/l
69/12/02	"	250 "
69/12/12	"	230 "
71/11/03	"	250 "
72/01/18	"	150 "
72/04/18	"	150 "
70/01/07	01090 Zn	300 "
70/04/15	"	40 "
71/11/03	"	120 "
72/01/18	"	80 "
71/01/05	00610 NH_3	0.10 mg/l
71/11/03	"	0.16 "
72/05/10	"	0.08 "
70/07/08	00070 Turb	98 JTU
71/01/05	"	86 "
72/06/07	"	330 "

Station #080 10/408 = 2% Rejects

Date	Storet # & Desc.	Value
70/04/16	01090 Zn	80 ug/l
70/06/03	"	20 "
71/09/23	"	140 "
69/07/02	00610 NH_3	0.12 mg/l
69/10/21	"	0.33 "
70/03/25	"	0.03 "
71/02/24	"	0.25 "
71/06/18	"	0.12 "
72/04/18	00070 Turb	111 JTU
70/01/07	31616 Fecal Coli	7900/100 ML

Station #081 18/325 = 6% Rejects

Date	Storet # & Desc.	Value
Throughout	01055 Mn	150<—>350 ug/l (11 of 17)
70/03/26	01090 Zn	200 ug/l
70/04/15	"	100 "
70/06/04	"	310 "
71/08/17	"	120 "
72/04/20	"	100 "
70/01/09	00610 NH_3	0.03 mg/l
70/13/26	"	0.08 "

Station #082 21/160 = 13% Rejects

Date	Storet # & Desc.	Value
70/04/15	01040 Cu	110 ug/l
69/07/02	01055 Mn	200 "
69/12/17	"	1000 "
70/07/08	"	250 "
70/08/26	"	600 "
71/08/17	"	700 "
72/05/17	"	350 "
72/06/20	"	300 "
69/12/17	01090 Zn	1400 "
70/04/15	"	2020 "
70/07/08	"	240 "
70/08/26	"	4300 "
71/08/17	"	830 "
72/06/20	"	290 "

Station #082 (Cont.)

Date	Storet # & Desc.	Value
69/07/02	00610 NH_3	0.04 mg/l
69/12/17	"	0.08 "
70/04/15	"	0.16 "
70/09/30	"	0.02 "
71/08/17	"	0.29 "
72/05/17	"	0.16 "
70/04/15	00070 Turb	52 JTU

Station #083 13/278 = 5% Rejects

Date	Storet # & Desc.	Value
70/06/01	01055 Mn	300 ug/l
70/06/01	01090 Zn	40 "
72/03/09	"	170 "
70/06/01	00610 NH_3	0.15 mg/l
70/08/27	"	0.03 "
70/10/15	"	0/15 "
71/01/02	"	0.10 "
71/07/12	"	0.03 "
71/09/20	"	0.45 "
72/03/09	"	0.08 "
72/05/16	"	0.12 "
72/06/13	"	0.29 "
70/01/07	31616 Fecal Coli	4000/100 ML

Station #084 29/264 = 11% Rejects

Date	Storet # & Desc.	Value
70/06/03	01055 Mn	300 ug/l
70/07/15	"	200 "
71/02/24	01090 Zn	90 "
72/01/18	"	130 "
Throughout	00610 NH_3	0.16<—>37.5 mg/l (16 of 16)
70/09/29	31505 Tot Coli	30,000/100 ML
70/11/19	"	" "
71/01/06	"	" "
70/06/03	00070 Turb	83 JTU
70/08/26	"	63 "
70/05/29	"	108 "
71/10/06	"	78 "
72/04/18	"	100 "
72/06/07	"	370 "

COLORADO (Cont.) STATE STATIONS

REJECT LIST

Station #085 29/252 = 12% Rejects

Date	Storet # & Desc.	Value
70/07/15	00515 TDS	5170 mg/1
70/03/26	"	2884 "
70/09/29	"	7119 "
71/01/06	"	4140 "
71/09/15	"	16,227 "
71/11/03	"	8287 "
71/12/08	"	3230 "
72/01/18	"	5155 "
70/11/19	01055 Mn	120 ug/1
70/06/03	01090 Zn	790 "
70/07/15	"	170 "
72/05/10	"	60 "
Throughout	00610 NH_3	0.08 ↔ 0.60 mg/1 (10 of 12)
71/01/06	31505 Tot Coli	30,000/100 ML
70/06/03	00070 Turb	119 JTU
70/08/25	"	5000 "
71/11/03	"	142 "
72/01/18	"	111 "
72/03/07	"	1000 "
72/05/10	"	170 "

Station #086 13/250 = 5% Rejects

Date	Storet # & Desc.	Value
70/08/19	00515 TDS	2446 mg/1
70/09/16	"	2911 "
70/10/07	"	2335 "
70/12/16	"	2291 "
71/12/10	"	2800 "
71/12/10	"	2730 "
70/07/15	01090 Zn	110 ug/1
71/02/11	"	220 "
72/03/22	"	100 "
70/08/19	31505 Tot Coli	92,000/100 ML
70/08/19	31616 Fecal Coli	24,000 "
70/08/16	00070 Turb	173 JTU
72/06/15	"	63 "

Station #087 9/207 = 4% Rejects

Date	Storet # & Desc.	Value
71/02/04	01090 Zn	120 ug/1
71/03/25	"	90 "
70/12/02	00610 NH_3	0.10 mg/1
71/02/04	"	9.0 "
71/12/10	"	0.08 "
72/05/12	00610 NH_3	0.12 "
72/06/08	"	0.21 "
71/01/14	31505 Tot Coli	30,000/100 ML
71/01/14	00070 Turb	74 JTU

Station #088 13/206 = 6% Rejects

Date	Storet # & Desc.	Value
71/02/03	01090 Zn	180 ug/1
70/11/25	01049 Pb	120 "
70/11/25	01040 Cu	60 "
70/11/17	00610 NH_3	0.12 mg/1
70/12/01	"	0.12 "
71/02/03	"	0.12 "
71/10/04	"	0.12 "
72/04/06	"	0.08 "
72/01/06	00720 CN	0.60 mg/1
71/02/03	31505 Tot Coli	30,000/100 ML
70/11/25	00070 Turb	61 JTU
70/12/01	"	98 "
72/04/06	"	95 "

Station #089 32/184 = 17% Rejects

Date	Storet # & Desc.	Value
71/02/16	01040 Cu	140 ug/1
70/11/25	01055 Mn	150 "
71/02/16	"	1400 "
71/04/15	"	1400 "
71/05/27	"	150 "
72/01/20	"	1000 "
70/11/25	01090 Zn	600 ug/1
71/02/16	"	900 "
71/05/27	"	280 "
71/12/15	"	260 "

Station #089 (Cont.)

Date	Storet # & Desc.	Value
72/05/10	01090 Zn	60 ug/1
70/12/21	01075 Ag	309 ug/1
70/11/25	00610 NH_3	0.70 mg/1
71/02/16	"	0.50 "
71/05/27	"	0.12 "
71/11/24	"	0.82 "
71/12/15	"	2.10 "
72/01/20	"	0.49 "
72/02/20	"	1.46 "
72/04/07	"	0.74 "
72/05/10	"	0.33 "
72/03/20	00310 BOD	40 mg/1
72/04/07	"	27 "
72/05/10	"	27 "
71/07/29	31505 Tot Coli	22,000/100 ML
72/01/20	"	24,000 "
72/03/20	"	24,000 "
71/07/29	31616 Fecal Coli	22,000 "
70/12/11	00700 Turb	112 JTU
71/12/15	"	52.5 "
72/05/10	"	58 "
70/12/21	00400 pH	11.0 (?)

Station #090 11/168 = 7% Rejects

Date	Storet # & Desc.	Value
71/04/06	01090 Zn	300 ug/1
71/10/13	00610 NH_3	0.41 mg/1
71/12/08	"	1.50 "
72/03/21	"	0.25 "
71/07/20	31505 Tot Coli	22,000/100 ML
71/04/06	00070 Turb	330 JTU
71/07/20	"	350 "
71/10/13	"	55 "
71/12/08	"	650 "
72/03/21	"	190 "
72/05/24	"	600 "

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REJECT LIST

COLORADO (Cont.) STATE STATIONS

Date	Storet # & Desc.	Value
Station #091	2/137 = 1% Rejects	
71/07/21	00070 Turb	450 JTU
72/06/15	"	210 "
Station #092	3/163 = 2% Rejects	
71/07/22	01090 Zn	160 ug/1
72/06/15	00610 NH_3	0.2 mg/1
72/06/15	00070 Turb	85 JTU
Station #093	2/132 = 2% Rejects	
71/10/14	00610 NH_3	0.21 mg/1
72/06/15	"	0.05 "
Station #094	8/163 = 5% Rejects	
72/01/20	00515 TDS	3943 mg/1
72/03/22	01090 Zn	70 ug/1
71/07/21	00070 Turb	1200 JTU
71/10/14	"	115 "
71/11/11	"	1500 "
72/01/20	"	3000 "
72/04/26	"	131 "
72/06/15	"	220 "
Station #095	1/96 = 1% Rejects	
72/06/15	00610 NH_3	0.10 mg/1
Station #096	13/145 = 9% Rejects	
71/10/03	00515 TDS	2482 mg/1
71/12/08	"	2420 "
72/01/13	"	2440 "
72/04/25	"	3925 "
72/06/28	"	2255 "
71/06/02	01055 Mn	1500 ug/1
71/07/20	"	60 "
71/10/13	"	250 "
72/01/18	"	150 "
71/07/20	00610 NH_3	0.03 mg/1
71/07/20	00070 Turb	110 JTU
71/10/13	"	110 "
72/04/25	"	115 "
Station #097	3/93 = 3% Rejects	
71/12/02	00515 TDS	2102 mg/1
72/01/21	01055 Mn	150 ug/1
72/06/15	01090 Zn	120 "
Station #098	1/113 = 1%	
71/11/01	00610 NH_3	0.08 mg/1
Station #099	6/103 = 6% Rejects	
7204/12	01090 Zn	160 ug/1
71/11/01	71900 Hg	40 "
71/12/10	"	110 "
72/03/09	"	60 "
71/11/01	00610 NH_3	0.12 mg/1
71/12/10	"	0.08 "
Station #100	12/165 = 7% Rejects	
71/12/08	01040 Cu	100 ug/1
71/08/11	00610 NH_3	0.08 mg/1
71/09/15	"	0.30 "
71/11/04	"	0.20 "
72/01/19	"	0.08 "
72/03/07	"	0.37 "
72/04/19	"	0.24 "
72/04/19	31505 Tot Coli	22,000/100 ML
71/11/04	00070 Turb	135 JTU
72/03/07	"	420 "
72/04/19	"	193 "
72/06/06	"	151 "
Station #101	5/111 = 4% Rejects	
71/11/03	01090 Zn	50 ug/1
71/09/15	00610 NH_3	0.20 mg/1
71/10/06	"	0.08 "
71/11/03	"	0.12 "
72/06/07	00070 Turb	90 JTU
Station #102	1/105 = 1% Rejects	
72/04/20	00070 Turb	135 JTU
Station #103	2/109 = 2% Rejects	
71/09/22	01090 Zn	50 ug/1
71/09/22	00610 NH_3	0.08 mg/1
Station #105	2/97 = 2% Rejects	
71/09/23	01090 Zn	80 ug/1
71/08/18	00610 NH_3	0.12 mg/1
Station #107	1/104 = 1% Rejects	
71/09/20	00610 NH_3	0.33 mg/1
Station #108	6/105 = 6% Rejects	
71/06/04	01090 Zn	60 ug/1
71/07/14	"	150 "
71/12/09	"	200 "
72/03/22	"	120 "
71/09/21	00610 NH_3	4.0 mg/1
71/09/21	00720 CN	100 " (?)
Station #109	3/117 = 3% Rejects	
71/07/14	31505 Tot Coli	22,000/100 ML
71/09/21	00610 NH_3	0.37 mg/1
71/07/14	31616 Fecal Coli	22.000/100 ML(?)
Station #110	4/116 = 4% Rejects	
71/08/19	00610 NH_3	0.05 mg/1
71/09/21	"	0.29 "
72/03/22	"	0.08 "
71/08/19	00070 Turb	57 JTU
Station #111	2/118 = 2% Rejects	
71/11/11	01055 Mn	200 ug/1
71/09/20	00610 NH_3	0.37 mg/1
Station #114	1/52 = 2% Rejects	
72/03/14	00610 NH_3	0.05 mg/1
Station #116	3/113 = 3% Rejects	
71/10/06	00610 NH_3	0.12 mg/1
71/11/04	"	0.16 "
71/08/11	31505 Tot Coli	22.000/100 ML
Station #117	2/37 = 5% Rejects	
71/11/02	01090 Zn	50 ug/1
71/11/02	00610 NH_3	0.08 mg/1

COLORADO (Cont.)

STATE STATIONS

REJECT LIST

Station #118 16/78 = 21% Rejects

Date	Storet # & Desc.	Value
71/10/08	01049 Pb	120 ug/1
72/03/09	"	130 "
71/10/08	01055 Mn	8600 "
71/11/01	"	7200 "
71/12/03	"	1200 "
72/01/06	"	17,000 "
72/03/09	"	11,800 "
71/10/08	01090 Zn	3200 "
71/11/01	"	7300 "
71/12/03	"	4400 "
72/01/06	"	8600 "
72/03/07	"	5750 "
71.10/08	00610 NH_3	1.20 mg/1
71/11/01	"	1.40 "
71/12/03	"	2.26 "
72/01/06	"	0.18 "

Station #120 1/29 = 3% Rejects

71/11/01	00610 NH_3	0.21 mg/1

Station #121 2/39 = 5% Rejects

71/11/01	00610 NH_3	0.16 mg/1
72/01/25	"	0.12 "

Station #122 3/59 = 5% Rejects

71/12/15	00610 NH_3	0.45 mg/1
72/01/20	"	0.45 "
72/03/20	"	0.16 "

Station #124 10/40 = 25% Rejects

71/11/29	00515 TDS	2769 mg/1
72/01/27	"	2715 "
71/11/29	01055 Mn	250 ug/1
71/11/29	00610 NH_3	6.67 mg/1
72/01/27	"	3.3 "
71/11/29	00310 BOD	72 "
72/01/27	"	72 "
71/11/29	31505 Tot Coli	22,000/100 ML
72/01/27	"	220,000/ "
72/01/27	00070 Turb	220 JTU

Station #125 1/47 = 2% Rejects

Date	Storet # & Desc.	Value
72/03/14	00610 NH_3	0.16 mg/1

Station #126 2/35 = 6% Rejects

72/01/25	00610 NH_3	3.7 "
72/01/25	00070 Turb	73 JTU

Station #127 5/43 = 12% Rejects

72/02/22	01090 Zn	330 ug/1
71/12/15	00610 NH_3	2.8 mg/1
72/02/22	"	0.08 "
71/11/16	00070 Turb	90 JTU
71/12/18	01090 Zn	460 ug/1

Station #128 5/50 = 10% Rejects

71/12/15	00610 NH_3	0.65 mg/1
71/11/16	31505 Tot Coli	2,000/100 ML
71/12/15	"	38,000/ "
71/11/16	31616 Fecal Coli	2,000/ " (?)
71/11/16	00070 Turb	82 JTU

REJECT LIST

COLORADO USGS COOP STATIONS

Date	Storet # & Desc.	Value
Station #06707000	**1/8 = 12% Rejects**	
70/10/06	01090 Zn	26 ug/l
Station #06707455	**1/8 = 12% Rejects**	
70/10/06	01090 Zn	22 ug/l
Station #06716000	**2/10 = 20% Rejects**	
71/12/17	01056 Mn	1300 ug/l
71/12/17	01090 Zn	40 "
Station #06717000	**1/9 = 11% Rejects**	
71/12/22	01090 Zn	50 ug/l
Station #06719500	**1/10 = 10% Rejects**	
71/12/23	01056 Mn	1500 ug/l
Station #06727500	**1/9 = 11% Rejects**	
71/11/19	01090 Zn	30,000 ug/l
Station #06728355	**1/8 = 12% Rejects**	
70/10/13	01090 Zn	30 ug/l
Station #06731000	**1/43 = 1% Rejects**	
71/12/13	71845 NH_4	30 ug/l
Station #06737500	**29/638 = 4% Rejects**	
Throughout	71845 NH_4	.05←→1.5 mg/l (29 of 49)
Station #06742500	**23/575 = 3% Rejects**	
Throughout	71845 NH_4	.05←→.27 mg/l (23 of 36)
Station #06744000	**2/228 = 1% Rejects**	
71/12/13	71845 NH_4	1.17 mg/l
66/04/01	70300 TDS	2120 mg/l
Station #06747500	**1/10 = 10% Rejects**	
71/12/14	71845 NH_4	.17 mg/l
Station #06748530	**1/10 = 10% Rejects**	
72/05/19	71890 Hg	54 ug/l

Date	Storet # & Desc.	Value
Station #06752000	**3/17 = 18% Rejects**	
72/05/18	01090 Zn	20 ug/l
72/05/18	71890 Hg	20 ug/l
72/12/14	71845 NH_4	.17 mg/l
Station #06752500	**1/249 = 1% Rejects**	
71/12/13	71845 NH_4	.17 mg/l
Station #06758500	**1/125 = 1% Rejects**	
71/12/13	71845 NH_3	.17 mg/l
Station #07079200	**30/139 = 22% Rejects**	
Throughout	01090 Zn	5800←→20,000 ug/l (13 of 13)
Throughout	01055 Mn	2000←→9,000 " (17 of 17)
Station #07079500	**1/10 = 10% Rejects**	
72/01/26	01090 Zn	1200 ug/l
Station #07081200	**14/113 = 10% Rejects**	
Throughout	01090 Zn	150←→980 ug/l (14 of 14)
Station #07081800	**3/10 = 30% Rejects**	
72/01/27	01040 Cu	24 ug/l
72/01/27	01056 Mn	14,000 "
72/01/27	01090 Zn	28.000 "
Station #07083000	**9/305 = 2% Rejects**	
68/10/16	01090 Zn	20 ug/l
70/10/09	"	25 "
71/01/20	"	50 "
71/02/10	"	90 "
72/02/15	"	20 "
69/12/23	00610 NH_3	.08 mg/l
70/01/13	"	.23 "
71/07/14	"	.09 "
71/09/08	"	.13 "

Date	Storet # & Desc.	Value
Station #07086000	**15/109 = 14% Rejects**	
Throughout	01090 Zn	[illegible] ug/l (14 of 14)
69/05/72 Mn	01055 Mn	1400 ug/l
Station #07099500	**1/18 = 12% Rejects**	
70/10/07	01090 Zn	32 ug/l
Station #07103355	**1/9 = 11% Rejects**	
70/10/13	01090 Zn	90 ug/l
Station #07105555	**1/10 = 10% Rejects**	
70/10/13	01090 Zn	142 "
Station #07109155	**1/9 = 11% Rejects**	
70/10/07	01090 Zn	57 "
Station #07115500	**3/49 = 7% Rejects**	
68/01/23	70300 TDS	[illegible] mg/l
68/05/16	"	2620 "
69/04/22	"	2820 "
Station #07128500	**7/59 = 12% Rejects**	
68/01/24	70300 TDS	[illegible] mg/l
[illegible]	"	2910 "
[illegible]	"	4520 "
68/04/23	"	4370 "
68/05/17	"	2300 "
69/01/14	"	2760 "
69/10/15	"	[illegible] "
Station #07130500	**61/491 = 12% Rejects**	
Throughout	70300 TDS	[illegible]←→4340 mg/l (60 of 67)
71/12/07	01056 Mn	2100 ug/l
72/01/05	"	1600 "
72/02/03	"	1600 "
Station #07133000	**22/325 = 7% Rejects**	
70/04/28	01090 Zn	3430 ug/l
70/07/14	"	145 "
Throughout	00610 NH_3	.06←→4.7 mg/l (20 of 32)

REJECT LIST

COLORADO (Cont.) USGS COOP STATIONS

Date	Storet # & Desc.	Value
Station #09022500	**1/8 = 12% Rejects**	
70/10/13	01090 Zn	18 ug/l
Station #09049155	**1/8 = 12% Rejects**	
70/10/26	01090 Zn	195 ug/l
Station #09057700	**3/24 = 12% Rejects**	
71/11/23	01025 Cd	15 ug/l
71/11/23	01056 Mn	12,000 "
71/11/23	01090 Zn	4500 "
Station #09057700	**1/9 = 11% Rejects**	
71/11/22	01090 Zn	30 ug/l
Station #09095500	**1/333 = 1% Rejects**	
71/12/15	01055 Mn	10,000 ug/l
Station #09145500	**1/11 = 9% Rejects**	
71/09/23	01090 Zn	130 ug/l
Station #09153000	**1/8 = 12% Rejects**	
70/10/15	01090 Zn	16 ug/l
Station #09165000	**1/8 = 12% Rejects**	
71/09/22	01090 Zn	120 ug/l
Station #09340000	**2/16 = 12% Rejects**	
71/10/18	00610 NH_3	.23 mg/l
72/02/15	"	.07 "
Station #09349800	**2/24 = 8% Rejects**	
71/10/19	00610 NH_3	.22 mg/l
72/02/15	"	.10 "
Station #09352900	**8/356 = 2% Rejects**	
70/10/12	01090 Zn	37 ug/l
71/01/07	"	40 "
71/02/04	"	40 "
71/05/17	"	40 "
71/06/17	"	30 "
71/07/08	"	20 "
71/09/29	"	30 "
72/02/08	"	20 "

Date	Storet # & Desc.	Value
Station #09354500	**3/223 = 1% Rejects**	
71/10/15	00610 NH_3	.19 mg/l
72/02/15	"	.11 "
72/05/23	"	.16 "
Station #09358000	**1/8 = 12% Rejects**	
71/10/04	01090 Zn	500 ug/l
Station #09363500	**5/26 = 20% Rejects**	
71/04/20	00610 NH_3	.08 mg/l
71/08/17	"	.08 "
71/10/20	"	.12 "
72/02/14	"	.10 "
72/05/22	"	.07 "

COLORADO - EPA COOP STATIONS

Date	Storet # & Desc.	Value
Station #06720500	**20/91 = 22% Rejects**	
Throughout	00610 NH_3	.06 ←→ 12.0 mg/l (19 of 31)
70/10/07	01090 Zn	39 ug/l
Station #07137500	**21/364 = 6% Rejects**	
Throughout	00610 NH_3	.05 ←→ .67 mg/l (21 of 32)
Station #06251500	**36/795 = 5% Rejects**	
70/08/20	01040 Cu	28.50 ug/l
70/09/13	" "	46.00 "
70/09/16	" "	65.90 "
Throughout	01090 Zn	14 ←→ 680 ug/l (13 of 90)
71/08/11	01034 Cr	500 ug/l
71/09/30	01055 Mn	1100 "
71/03/11	71900 Hg	5.2 ug/l
71/05/26	" "	2000 ug/l
71/06/17	" "	1400 "
Throughout	00610 NH_3	.05 ←→ .21 mg/l (17 of 30)

COMBINED STATION REJECTS LIST

COLORADO

Stations	Total Rejects
Colo #001 EPA Coop #07137500	78/ 658 21/ 364 99/1022 = 10%
Colo #002 USGS Coop#07133000	52/642 22/325 74/967 = 8%
Colo #007 USGS Coop #07096000	12/420 0/206 12/625 = 2%
Colo #010 USGS Coop #07128500	24/591 7/ 59 31/650 = 4%
Colo #012 USGS #0711950	3/ 49 70/501 73/550 = 7%
Colo #015 USGS Coop #07099400	76/545 0/130 76/725 = 10%
Colo #020 USGS Coop #0676408I " " #0676399I	64/525 0/ 18 0/ 54 64/597 = 10%
Colo #021 USGS #06760000	47/507 0/ 97 47/604 = 8%
Colo #022 USGS #06754000	66/462 0/104 66/566 = 12%
Colo #023 EPA Coop #06720500	96/514 20/439 116/953 = 12%
Colo #027 USGS Coop #06752500	97/484 1/249 98/733 = 13%
Colo #028 USGS Coop #06744000	81/463 2/228 83/791 = 10%
Colo #029 USGS Coop #06731000	77/548 1/243 78/791 = 10%
Colo #045 USGS Coop #90934500	24/530 0/365 24/895 = 3%
Colo #046 EPA Coop #09070400	24/564 0/ 21 24/585 = 4%
Colo #048 USGS #09095500	43/571 0/333 43/901 = 5%
Colo #054 EPA Coop #09149500	42/597 0/100 42/697 = 6%
Colo #055 EPA Coop #90152500	48/ 566 0/ 460 48/1026 = 4%
Colo #061 EPA Coop #09179500	64/585 0/170 64/755 = 8%
Colo #065 * EPA Coop #09366500	27/551 0/ 48 27/599 = 4%
Colo #067 USGS Coop #09354500	25/533 3/227 28/760 = 4%
Colo #069 USGS Coop #09349800	19/522 2/ 24 21/546 = 4%
Colo #099 USGS Coop #09057700	7/108 3/ 24 10/132 = 8%
Colo #107 USGS Coop #08227000	11/104 0/ 44 11/148 = 1%

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COLORADO

7. DATA REDUCTION FORMS

COLORADO STATE STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	Rated Weight	Max Weight	%
001	1/68-6/72	34	34	100	49	324	15	44	142	31	45	110	41	39	48	81	3 2 3 3 3	31	36	86
002	1/68-6/72	31	32	97	52	264	20	29	129	22	28	104	27	39	48	81	3 2 2 3 3	28	36	78
003	1/68-6/72	34	34	100	46	266	17	49	128	39	29	107	27	38	49	77	3 2 3 3 3	31	36	86
004	1/68-6/72	33	34	97	55	248	22	83	137	61	41	108	38	20	46	43	3 2 3 3 3	31	36	86
005	1/68-6/72	22	31	71	59	237	25	68	119	56	39	104	38	49	55	90	3 3 3 3 3	36	36	100
006	1/68-6/72	16	32	50	60	243	36	39	122	32	26	108	24	32	52	62	3 3 3 2 3	35	36	98
007	1/68-6/72	0	23	0	8	191	4	23	84	28	14	82	17	37	40	93	0 1 3 2 3	22	36	61
008	1/68-6/72	0	35	0	32	347	9	12	122	10	5	116	4	19	52	37	0 1 2 1 3	18	36	50
009	1/68-6/72	0	32	0	32	283	11	40	111	36	5	107	5	18	47	39	0 2 3 1 3	26	36	72
010	1/68-6/72	31	31	100	45	296	15	36	115	31	33	104	31	27	45	60	3 2 3 3 3	31	36	86
000011	1/68-6/72	26	26	100	26	217	12	52	105	50	23	93	25	16	43	37	3 2 3 3 3	31	36	86
000012	1/68-6/72	28	30	93	68	262	26	50	116	43	37	102	36	44	51	86	3 3 3 3 3	36	36	100

*Turb. Only

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
000013	1/68-6/72	23	23	100	36	205	18	52	91	57	32	81	40	16	42	38	3 2 3 3 3	31	36	86
000014	1/68-6/72	26	26	100	43	224	19	37	105	35	35	95	37	30	46	65	3 2 3 3 3	31	36	86
000015	1/68-6/72	29	29	100	43	249	17	57	111	51	9	102	9	52	54	96	3 2 3 3 3	31	36	86
000016	1/68-6/72	17	33	51	63	312	20	113	137	82	*36	112	32	47	71	66	3 2 3 3 3	31	36	86
000017	1/68-6/72	0	32	0	1	262	1	35	116	30	19	103	18	40	58	69	0 1 3 2 3	23	36	64
000018	1/68-6/72	3	23	13	30	202	15	16	86	19	13	101	13	15	36	41	2 2 2 2 3	26	36	72
000019	1/68-6/72	0	24	0	21	204	10	14	92	15	5	90	5	18	41	44	0 2 2 1 3	23	36	64
000020	1/68-7/72	33	33	100	45	211	21	60	129	47	35	104	34	41	48	85	3 2 3 3 3	31	36	86
000021	1/68-7/72	29	29	100	43	217	20	50	121	41	37	97	38	35	43	81	3 2 3 3 3	31	36	86
000022	1/68-7/72	21	23	91	43	207	21	72	101	71	28	87	32	42	44	95	3 2 3 3 3	31	36	86
000023	1/68-7/72	20	28	71	61	225	27	96	118	81	30	94	32	48	49	98	3 3 3 3 3	36	36	100
000024	11/68-6/72	0	23	0	21	201	10	17	78	22	17	86	20	36	49	73	0 2 2 2 3	24	36	66

*Turb. Only

Due to circumstances beyond our control page 43 is missing from this report.

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(-)=Not Ratable	Rated Weight	Max Weight	%
000038	3/68-6/72	0	29	0	20	239	9	28	112	25	15	107	14	22	50	44	0 1 3 2 3	22	36	61
000039	3/68-6/72	0	28	0	23	252	9	18	112	16	26	104	25	15	49	30	0 1 2 3 3	20	36	55
000040	3/68-6/72	0	28	0	18	273	7	18	104	17	39	117	33	15	50	30	0 1 2 3 3	20	36	55
000041	1/68-5/72	3	27	11	28	253	11	24	106	23	36	102	35	16	48	33	2 2 2 3 3	27	36	75
000043	1/68-5/72	1	29	3	11	176	6	20	109	18	21	122	17	22	46	48	1 1 2 1 3	18	36	50
000044	1/68-4/72	8	29	28	24	226	11	71	107	66	39	99	39	10	44	23	3 2 3 3 2	29	36	81
000045	1/68-4/72	0	28	0	1	243	1	18	114	16	8	98	8	17	47	36	0 1 2 1 3	18	36	50
000046	1/68-3/71	0	34	0	18	257	7	13	112	12	14	109	13	16	52	31	0 1 2 2 3	19	36	52
000047	1/68-4/72	22	34	65	23	269	9	52	107	49	pH 22	110	20	18	55	33	3 1 3 2 3	25	36	70
000048	1/68-4/72	23	31	74	41	266	15	23	116	20	27	106	25	24	52	46	3 2 2 3 3	28	36	78
000049	1/68-4/72	27	31	87	42	285	15	69	115	60	37	105	35	39	50	78	3 2 3 3 3	31	36	86
000050	1/68-4/72	30	33	91	51	298	17	77	130	59	39	108	36	39	52	75	3 2 3 3 3	31	36	86

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
000052	1/68-4/72	19	33	58	49	277	18	26	112	23	16	109	15	14	53	26	3 2 2 2 3	27	36	75
000053	1/68-4/72	0	33	0	15	262	6	22	112	20	19	110	17	12	55	22	0 1 2 2 2	17	36	47
000054	1/69-4/72	25	33	76	41	280	15	41	123	33	32	108	30	23	53	43	3 2 3 3 3	31	36	86
000055	1/68-4/72	32	33	99	43	247	22	54	124	44	44	108	41	43	54	80	3 2 3 3 3	31	36	86
000056	1/68-4/72	6	33	18	19	275	7	22	123	18	31	109	28	16	54	30	2 1 2 3 3	22	36	61
000057	1/68-4/72	0	29	0	22	233	9	26	112	23	10	97	10	19	50	38	0 1 2 2 3	19	36	52
000058	1/68-4/72	0	28	0	6	241	2	7	113	6	4	97	4	10	48	21	0 1 1 1 2	13	36	36
000059	3/68-4/72	0	29	0	22	245	9	33	111	30	12	97	13	23	50	46	0 1 3 2 3	22	36	61
000061	1/68-4/72	28	32	88	54	273	20	36	122	30	31	99	31	31	49	63	3 2 3 3 3	31	36	86
000062	1/68-4/72	28	28	100	42	252	17	54	100	54	33	99	33	40	44	91	3 2 3 3 3	31	36	86
000063	1/68-3/71	11	26	42	16	242	7	55	102	54	40	99	40	28	43	65	3 1 3 3 3	26	36	72
000064	1/68-4/72	26	27	96	25	233	11	18	99	18	37	97	38	11	42	26	3 2 2 3 3	28	36	78

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
000065	1/68-6/72	27	27	96	17	265	6	23	105	22	22	106	21	15	47	32	3 1 2 2 3	22	36	61
000066	1/68-6/72	0	27	0	12	234	5	7	101	7	24	104	23	19	48	40	0 1 1 2 3	16	36	45
000067	1/68-6/72	0	30	0	0	243	0	19	104	18	32	106	30	16	50	32	0 0 2 3 3	15	36	42
000068	1/68-6/72	0	28	0	10	239	4	11	103	11	23	106	22	19	50	38	0 1 2 2 3	19	36	52
000069	1/68-6/72	0	29	0	9	236	4	7	103	7	23	106	22	12	48	25	0 1 1 2 3	16	36	45
000070	1/68-6/72	0	27	0	32	263	12	30	105	29	32	94	34	22	39	56	0 2 3 3 3	28	36	78
000071	2/68-7/72	9	29	0	44	283	16	48	109	44	40	100	40	24	45	53	0 2 3 3 3	28	36	78
000072	1/68-7/72	0	28	0	29	230	13	40	98	41	14	90	16	NO_3 34	43	79	0 2 3 2 3	27	36	75
000073	1/68-7/72	0	29	0	29	306	9	53	114	46	27	106	25	NO_3 35	43	81	0 1 3 3 3	23	36	64
000074	1/68-6/72	1	43	2	22	312	7	23	136	17	21	144	15	31	72	43	1 1 2 2 3	17	36	47
000075	1/68-6/72	0	31	0	11	226	5	4	109	4	8	109	7	8	52	15	0 1 1 1 2	13	36	36
000076	1/70-6/72	2	14	14	45	182	25	21	61	34	5	59	8	10	29	34	1 3 3 1 3	32	36	89

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
000077	1/70-6/72	1	12	8	37	162	23	0	56	0	2	51	4	7	23	30	1 2 0 1 3	20	36	5
000078	1/68-6/72	0	24	0	10	204	5	9	99	9	11	91	12	12	52	23	0 1 1 2 2	14	36	3
000079	4/68-6/72	6	17	35	19	221	9	8	70	11	14	72	19	12	39	31	3 1 2 2 3	22	36	6
000080	4/69-6/72	0	18	0	0	209	0	11	71	15	10	70	14	10	40	25	0 0 2 2 3	14	36	3
000081	4/69-6/72	0	15	0	23	175	13	4	48	8	4	57	7	6	30	20	0 2 1 1 2	18	36	5
000082	7/69-6/72	0	6	0	19	88	22	1	24	4	8	26	31	4	16	25	0 2 1 3 3	22	36	6
000083	1/70-6/72	0	12	0	14	131	11	4	55	7	3	54	6	6	26	23	0 2 1 1 2	18	36	5
000084	6/70-6/72	8	11	11	38	102	37	22	54	41	3	66	5	24	31	77	2 3 3 1 3	34	36	9
000085	6/70-6/72	9	12	75	22	127	17	6	49	12	11	42	26	7	22	32	3 2 2 3 3	28	36	7
000086	7/70-6/72	9	9	100	25	134	19	10	47	21	3	40	8	14	20	70	3 2 2 1 3	26	36	7
000087	11/70-6/72	0	9	0	11	111	10	9	37	24	6	38	16	6	22	27	0 2 2 2 3	24	36	6
000088	11/70-6/72	0	7	0	9	101	9	6	42	14	10	38	26	8	18	44	0 1 2 3 3	20	36	5

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATINGS	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
000089	11/70-6/72	1	6	17	6	75	8	20	37	54	14	35	40	11	20	55	2 1 3 3 3	25	36	70
000090	4/71-6/72	6	15	40	8	75	11	13	37	35	6	26	23	15	15	100	3 2 3 2 3	30	36	84
000091	6/71-5/72	0	14	0	4	64	6	8	33	24	10	25	40	2	14	14	0 1 2 3 2	18	36	50
000092	6/71-6/72	7	12	58	5	78	6	5	33	15	5	27	19	9	13	70	3 1 2 2 3	22	36	61
000093	6/71-6/72	0	10	0	2	57	4	10	30	33	7	23	30	4	12	33	0 1 3 3 3	23	36	64
000094	6/71-6/72	8	11	73	9	74	12	19	31	61	11	23	49	9	14	64	3 2 3 3 3	31	36	86
000095	11/71-6/72	0	8	0	1	43	2	0	22	0	4	15	27	4	8	50	0 1 0 3 3	14	36	39
000096	6/71-6/72	8	11	73	9	66	14	14	32	44	5	24	21	5	12	42	3 2 3 2 3	30	36	84
000097	12/71-6/72	4	7	57	6	45	13	0	19	0	2	15	13	3	7	43	3 2 0 2 3	21	36	58
000098	11/71-6/72	0	6	0	0	60	0	0	15	0	8	20	40	5	12	42	0 0 0 3 3	9	36	25
000099	11/71-6/72	0	6	0	6	57	11	0	17	0	5	18	28	2	10	20	0 1 0 3 2	12	36	33
000100	8/71-6/72	0	10	0	11	83	13	6	28	21	9	28	32	15	16	94	0 2 2 3 3	25	36	70

COLORADO COMBINED STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
001 & ** 07137500	1/68-6/72 1/68-5/72	60	60	100	70	366	19	60	199	30	82	274	30	82	103	80	3 2 3 3 3	31	36	86
002 & ** 07133000	1/68-6/72 9/69-5/72	35	51	69	99	853	17	30	197	15	37	223	17	39	48	81	3 2 2 2 3	35	36	97
007 & ** 07096000	1/68-6/72 1/68-7/72	0	43	0	9	199	5	*23	100	23	19	189	10	48	94	51	0 1 2 2 3	17	36	47
010 & 07128500	1/68-6/72 1/68-10/69	43	43	100	*45	*296	15	*36	*115	31	34	127	27	43	69	62	3 2 3 3 3	31	36	86
012 & 07119500	1/68-6/72 1/68-10/69	38	40	95	*68	*262	26	*50	*116	43	40	121	33	34	94	40	3 3 3 3 3	18	27	6
015 & 07099400	1/68-6/72 1/68-9/70	36	56	64	*43	*249	17	*57	116	49	15	198	8	81	106	76	3 2 3 1 3	29	36	80
020 & 06746081 06763991	1/68-6/72 1/68-10/68 1/68-8/69	*33	61	54	57	255	22	*60	*129	47	*35	*104	34	*41	* 48	85	3 2 3 3 3	31	36	86
021 & 06760000	1/68-7/72 1/68-9/70	48	48	100	*43	*217	20	*50	*121	41	46	137	36	72	81	89	3 2 3 3 3	31	36	86
022 & ** 06754000	1/68-7/72 1/68-5/72	37	43	86	*43	*207	21	*72	*101	71	▲29	130	22	82	85	96	3 2 3 2 3	30	36	83
023 & ** 06720500	1/68-6/72 1/68-5/72	39	57	68	99	311	32	144	188	77	144	233	62	109	126	87	3 3 3 3 3	36	36	100
027 & ** 06752500	1/68-7/72 1/68-7/72	47	49	96	83	255	33	▲84	131	64	30	188	16	100	110	91	3 3 3 2 3	35	36	97
028 & ** 06744000	1/68-7/72 1/68-7/72	47	49	96	22	219	10	*77	125	62	36	189	19	99	109	91	3 2 3 2 3	30	36	83
029 & ** 06731000	1/68-7/71 1/68-7/71	44	49	90	66	247	27	*67	127	53	41	193	21	106	113	94	3 3 3 2 3	35	36	97

*State Station only.
**Possible Duplication.
▲95% State.

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(-)=Not Ratable	Rated Weight	Max. Weight	%
045 & ** 090345000	1/68-4/72 1/68-7/72	0	77	0	*1	253	1	*18	136	13	13	245	5	70	184	38	0 1 2 1 3	18	36	50
046 & ** 09070400	1/68-2/72 1/68-4/72	◻2	37	5	*18	*257	70	*13	116	11	*14	123	11	16	52	31	1 3 2 2 3	30	36	83
048 & ** 09095500	1/68-4/72 1/68-7/72	53	74	72	45	277	16	23	137	17	39	240	16	61	176	35	3 2 2 2 3	27	36	75
054 & ** 09152500	1/69-4/72 1/68-7/72	88	111	79	42	289	15	*41	145	28	38	277	14	116	245	47	3 2 3 2 3	30	36	83
055 & ** 09149500	1/68-4/72 12/69-2/72	49	50	98	*54	*247	22	55	130	42	45	158	28	58	70	83	3 2 3 3 3	31	36	86
061 & ** 09179500	1/68-6/72 1/70-4/72	33	39	85	*54	*273	20	*36	141	26	41	242	17	32	50	64	3 2 3 2 3	30	36	83
065 & ** 09366500	1/68-6/72 8/69-5/72	29	31	94	*17	*265	6	*23	110	21	28	146	19	*15	*47	32	3 1 2 2 3	22	36	61
067 & ** 09354500	1/68-6/72 7/68-5/72	0	49	0	*3	249	1	25	189	13	41	178	22	19	81	24	0 1 2 2 2	16	36	44
069 & ** 09239800	1/68-6/72 7/69-5/72	0	48	0	12	242	5	*7	*103	7	*23	*106	22	◻12	◻48	25	0 1 1 2 3	16	36	44
099 & ** 09057700	11/72-6/72 7/69-10/71	0	11	0	*6	*57	11	0	19	0	*5	35	14	◻2	◻10	20	0 2 0 2 2	36	36	100
107 & 08227000	6/71-6/72 1/68-9/68	0	11	0	*2	*17	12	*0	*6	0	*4	25	16	*9	*18	50	0 1 - 2 3	17	36	47

*State Station only.
**Possible Duplication.
◻USGS only.

COLORADO [illegible]A/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses			II HAZ. MATERIALS WEIGHT = 5 Excesses			III ORB WEIGHT = 3 Excesses			IV FIELD WEIGHT = 1 Excesses			V NUTRIENT WEIGHT = 2 Excesses			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING Rated Weight		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
USGS-EPA 06720500	10/67-5/72	19	19	66	38	86	44	48	70	69	114	139	82	61	77	79	3 3 3 3 3	36	36	100
" " 07133000	9/69-5/72 Dropped**	22	24	100	23	90	25	12	69	17	22	120	18	18	22	82	3 3 2 2 3	35	36	97
" " 07137500	11/68-5/72	36	36	100	21	42	40	16	57	28	37	164	23	43	55	78	3 3 3 2 3	35	36	97
08251500	9/69-5/72	4	19	21	47	589	9	1	68	1	9	119	16	0	0	0	2 1 1 2 -	12	30	40
" " 09019000	7/69-3/72	0	17	0	0	0	0	0	7*	0	4	59	7	0	0	0	0 - - 1 -	x	x	
" " 09038500	7/69-10/71 Dropped**	0	5	0	0	0	0	0	2*	0	0	17	0	0	0	0	- - - 0 -	x	x	
" " 09057700	7/69-10/71 Dropped**	0	5	0	0	0	0	0	2*	0	0	17	0	0	0	0	- - - 0 -	x	x	
" " 09070400	11/69-2/72 Dropped**	2	3	57	0	0	0	0	4*	0	0	14	0	0	0	0	- - - 0 -	x	x	
" " 09085000	8/69-2/72 Dropped**	0	11	0	0	0	0	0	8*	0	1	50	2	0	0	0	- - - 1 -	x	x	
" " 09090800	9/70-4/72	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	- - - 0 -	x	x	
" " 09093700	9/70-3/71	0	0	0	0	0	0	0	0		0	17	0	0	0	0	- - - 0 -	x	x	
" " 09149500	12/69-2/72 Dropped**	17	17	100	0	0		1	6*	17	1	50	2	15	16	94	3 - 2 1 3	16	21	76

*DO only

**Dropped from EPA Coop.

51

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORG WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
USGS-EPA 09152500	7/64-4/72 Dropped**	149	187	80	0	0	0	0	20	0	6	280	2	97	98	99	3 - 0 1 3	10	21	47
" " 09163500	9/69-2/72	11	12	92	0	0	0	0	0	0	2	44	5	0	0	0	3 - - 1 -	x	x	
" " 09169500	9/70-4/72	0	0	0	0	0	0	0	0	0	7	22	10	0	0	0	- - - 1 -	x	x	
" " 09175500	9/70-4/72	0	0	0	0	0	0	0	0	0	5	69	7	0	0	0	- - - 1 -	x	x	
" " 09177000	9/69-4/72	5	5	100	0	0	0	0	0	0	7	82	9	0	0	0	- - - 1 -	x	x	
" " 09177100	8/69-4/72	8	10	80	0	5	0	0	8	0	5	111	4	0	0	0	3 - - 1 -	x	x	
" " 09179500	1/70-4/72	5	7	71	0	0	0	0	19	0	10	143	7	1	1	100	3 - 0 1 -	4	15	27
" " 09251000	11/68-4/72 Dropped**	2	325	.016	0	0	0	0	20*	0	14	416	3	31	322	10	1 - 0 1 2	7	21	33
" " 09260000	8/69-4/72 Dropped**	7	19	37	2	10	20	0	20*	0	5	108	5	1	16	6	3 2 0 1 1	16	36	44
" 09361500	9/71-3/72	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	- - - - -	x	x	
" " 09366500	8/69-5/72	2	3	67	0	0	0	0	5*	0	6	40	15	0	0	0	- - - 2 -	x	x	
" " 09371000	8/69-3/72	4	4	100	0	0	0	0	4*	0	3	24	13	0	0	0	- - - 2 -	x	x	

*DO only.
**Dropped from EPA Coop.

REGION VIII
WATER QUALITY ASSESSMENT

Station Number(s)	Period of Record	PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING) I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
USGS-EPA 09372000	8/69-3/72 Dropped**	3	3	100	0	0	0	0	7*	0	3	20	15	0	0	0	- - - 1 -	*	x	

*DO only.

**Dropped from EPA Coop.

COLORADO USGS/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	I TDS WEIGHT = 1 Values	I TDS WEIGHT = 1 %	II HAZ. MATERIALS WEIGHT = 5 Excesses	II HAZ. MATERIALS WEIGHT = 5 Values	II HAZ. MATERIALS WEIGHT = 5 %	III ORB WEIGHT = 3 Excesses	III ORB WEIGHT = 3 Values	III ORB WEIGHT = 3 %	IV FIELD WEIGHT = 1 Excesses	IV FIELD WEIGHT = 1 Values	IV FIELD WEIGHT = 1 %	V NUTRIENT WEIGHT = 2 Excesses	V NUTRIENT WEIGHT = 2 Values	V NUTRIENT WEIGHT = 2 %	RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING Rated Weight	WEIGHTED RATING Max. Weight	WEIGHTED RATING %
06731000	1/68-7/72	22	24	92	23	33	70	0	20*	0	10	101	10	61	65	94	3 3 0 2 3	26	36	72
06737500	9/69-7/72	0	80	0	29	49	59	0	140*	0	9	202	4	3	167	18	0 3 0 1 2	20	36	55
06742500	2/72-7/72	0	69	0	23	36	69	0	135	0	6	177	3	0	140	0	0 3 0 1 0	16	36	44
06744000	1/68-7/72	22	24	92	16	17	94	0	20*	0	7	102	7	61	65	94	3 3 0 1 3	25	36	69
06752500	1/68-7/72	21	23	91	29	43	67	1	21*	5	6	99	6	61	63	97	3 3 1 1 3	28	36	77
06754000	1/68-5/72	16	20	80	0	0	0	0	0	0	1	43	2	40	41	98	3 - - 1 3	10	12	83
06758500	1/68-7/72	10	10	100	2	10	20	0	10*	0	9	57	16	38	38	100	3 2 0 2 3	21	36	58
06760000	1/68-9/70	19	19	100	0	0	0	0	0	0	9	40	23	37	38	97	3 - - 2 3	11	12	91
06763991	1/68-8/69	19	19	100	8	43	19	0	0	0	5	39	13	25	38	66	3 2 - 2 3	21	27	77
07079200	1/68-1/72	15	17	88	52	57	91	0	0	0	0	31	0	4	34	12	3 3 - 0 2	22	27	81
07081200	1/68-5/69	0	17	0	32	32	100	0	0	0	0	30	0	0	34	0	0 3 - 0 0	15	27	55
07083000	1/68-7/72	0	37	0	11	78	14	0	76	0	5	143	3	3	51	6	0 2 0 1 1	13	36	36

* D.O. Only

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
07086000	1/68-12/70	0	15	0	30	30	100	0	0	0	0	31	0	1	33	3	0 3 - 0 1	17	27	62
07096000	1/68-7/72	0	20	0	1	8	13	0	16*	0	5	107	5	11	54	20	0 1 0 1 2	10	36	27
07099200	1/68-7/72	1	47	2	2	10	20	0	20*	0	12	195	6	56	96	58	1 2 0 1 3	18	36	50
07099400	1/68-9/70	7	27	26	0	[illegible]	0	0	5*	0	6	96	6	29	52	56	3 - - 1 3	10	12	83
07119500	1/68-4/69	10	10	100	0	0	0	0	0	0	3	19	16	118	20	90	3 - - 2 3	11	12	91
07126500	1/68-10/69	12	12	100	0	0	0	0	0	0	1	23	4	16	24	67	3 - - 1 3	10	12	83
07130500	1/68-7/72	87	87	100	[illegible]	20	30	1	17*	6	22	201	11	83	163	51	3 3 2 2 3	29	36	80
08220000	1/68-9/68	0	9	0	0	0	0	0	0	0	0	18	0	8	18	44	- - - 0 3	x	x	
08223500	1/68-9/68	0	9	0	0	0	0	0	0	0	0	18	0	9	18	50	- - - 0 3	x	x	
08227000	1/68-9/68	0	9	0	0	0	0	0	0	0	0	17	0	9	18	50	- - - 0 3	x	x	
08230500	1/68-9/68	0	9	0	0	0	0	0	0	0	0	17	0	9	18	50	- - - 0 3	x	x	
09034500	1/68-7/72	0	49	0	0	10	0	0	22*	0	5	147	3	53	137	37	0 0 0 1 3	7	36	19

* D.O. Only

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	Rated Weight	Max Weight	%
09069000	1/68-7/72	23	48	49	0	0	0	0	22*	0	4	139	29	27	131	21	3 - 0 3 2	11	21	52
09070500	4/68-5/72	0	9	0	2	3	67	0	8*	0	3	44	7	0	28	0	- 3 - 1 0	16	24	75
09071100	1/68-7/72	0	43	0	6	10	60	0	22*	0	6	136	4	4	123	3	0 3 0 1 1	15	36	50
09085000	8/69-5/72	0	11	0	0	0	0	0	9*	0	2	52	4	0	13	0	0 - - 1 0	1	12	8
09095500	1/68-7/72	30	43	70	4	11	36	0	21*	0	12	134	9	37	124	13	3 3 0 1 2	23	36	63
09105000	11/68-5/72	4	11	36	1	2	50	0	7*	0	5	42	12	10	29	45	3 - - 2 3	11	12	91
09149500	3/68-5/72	12	12	100	1	2	50	1	7	14	1	46	2	120	33	61	3 - - 1 3	10	12	83
09152500	1/68-7/72	63	78	81	1	9	11	0	22*	0	6	169	4	93	192	48	3 - 0 1 3	10	21	47
09251000	1/68-6/72	1	75	1	0	9	11	0	22*		15	170	21	44	183	24	1 - 0 2 2	7	21	33
09260000	8/69-7/72	7	32	22	2	10	20	0	22*	0	5	114	4	19	76	25	2 2 0 1 3	19	36	52
09306210	12/70-7/72	16	16	100	9	16	56	1	16*	6	9	66	14	14	35	40	3 3 1 2 3	29	36	80
09346400	7/69-5/72	0	19	0	3	6	50	9	89	10	3	74	4	3	32	18	0 - 2 1 2	11	21	52

*DO Only

REGION VIII
WATER QUALITY ASSESSMENT

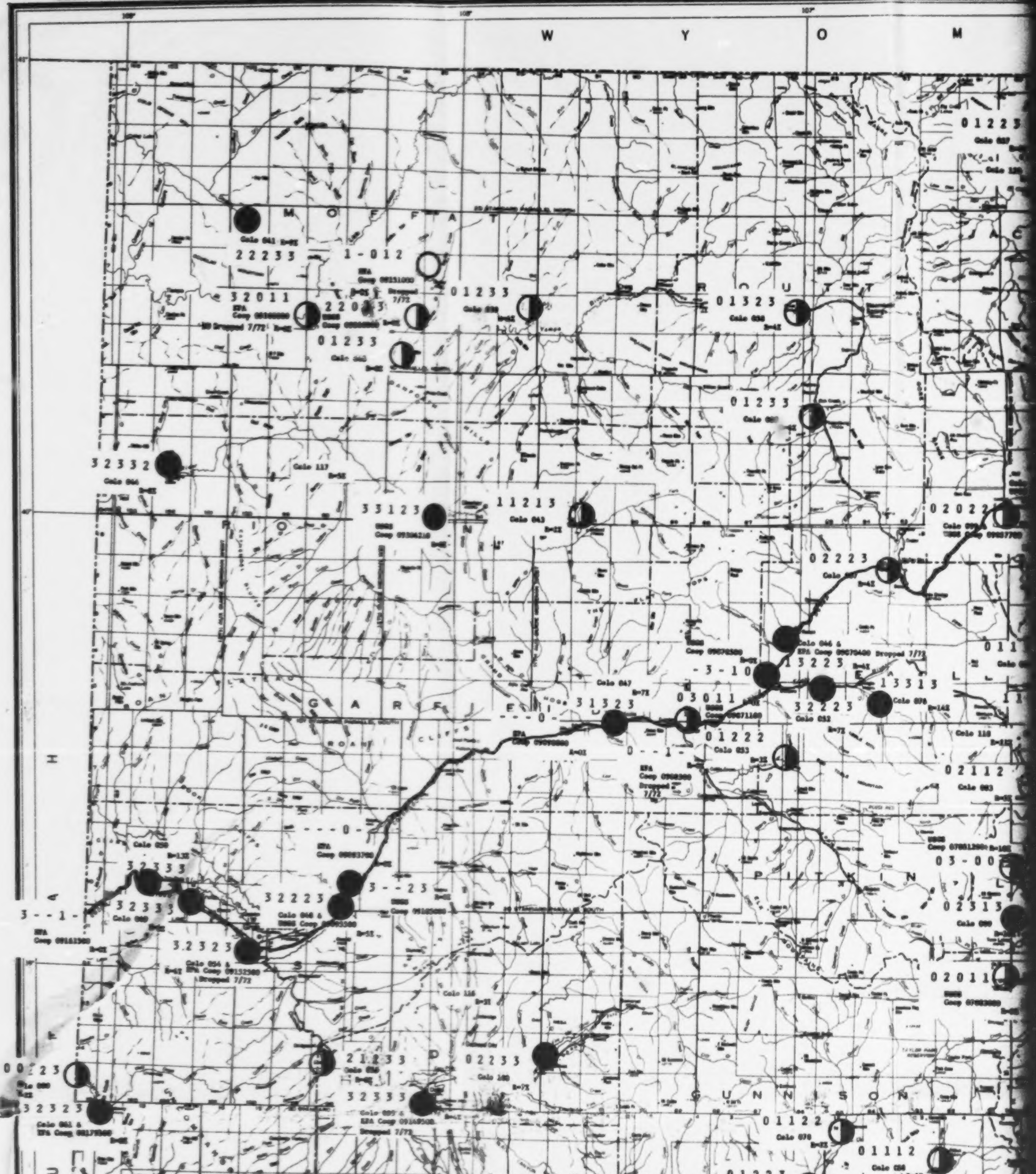
PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	Rated Weight	Max Weight	%
09349800	6/69-5/72	0	19		3	6	50										0 - - - -			
09352900	1/68-8/72	0	32	0	11	58	19	0	74	0	13	126	10	0	66	0	0 2 0 1 0	11	36	30
09354500	7/68-5/72	0	19	0	3	6	50	6	85	7	9	72	13	3	31	19	0 - 1 2 2	9	21	43
067640BI	1/68-10/68	0	9		*4	9	44	0	0	-	0	0	-	0	0	-	- - - - -			

*MN Only

A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY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EPA
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Dropped 7/72
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Dropped 7/72
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Dropped 7/72
Colo 116
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0 2 2 3 3
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3 2 3 3 3
Dropped 7/72
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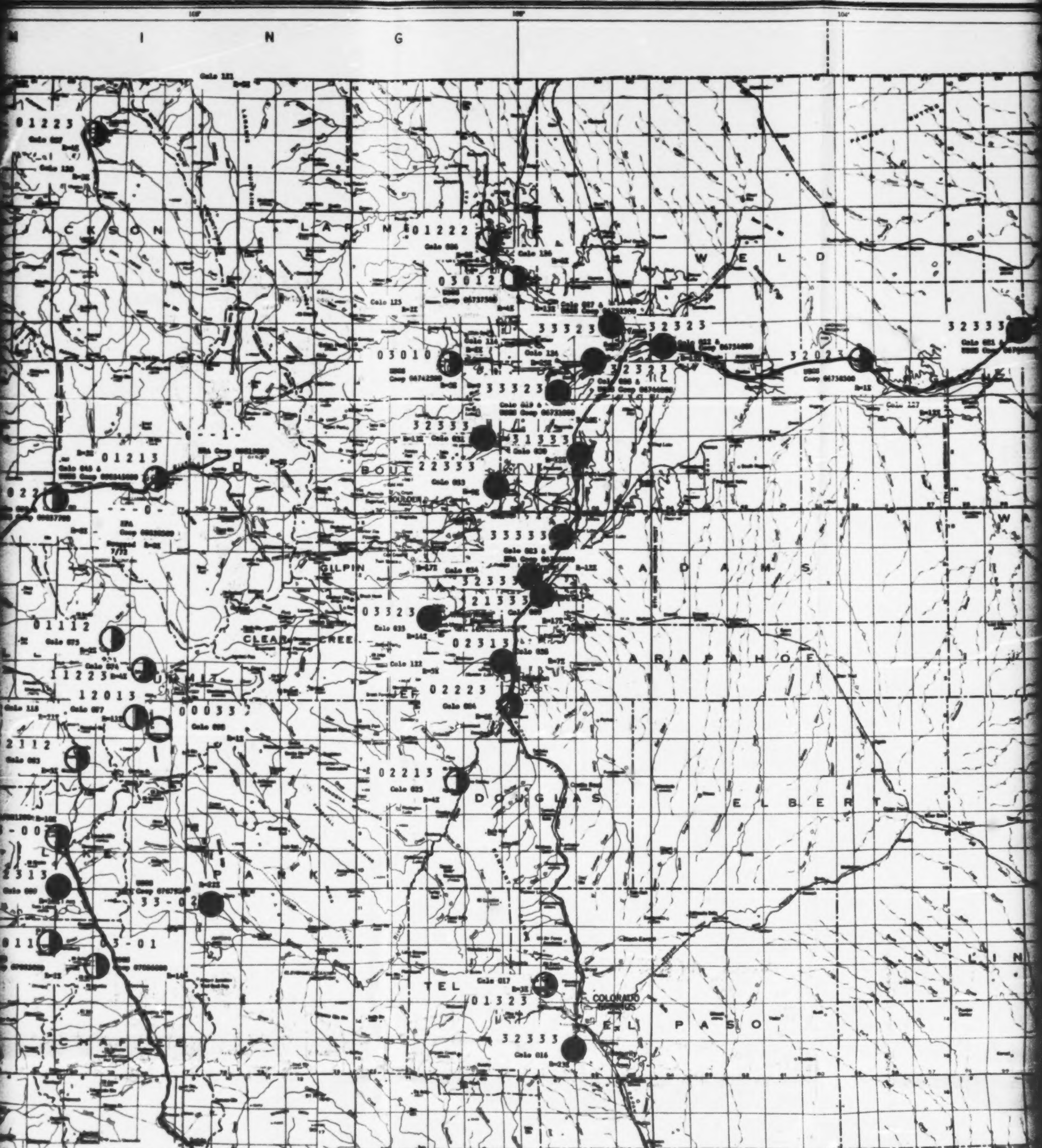
B

STATE OF COLORADO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CHAFFEE
TELLER
EL PASO
FREMONT
COLORADO SPRINGS
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01222
03012
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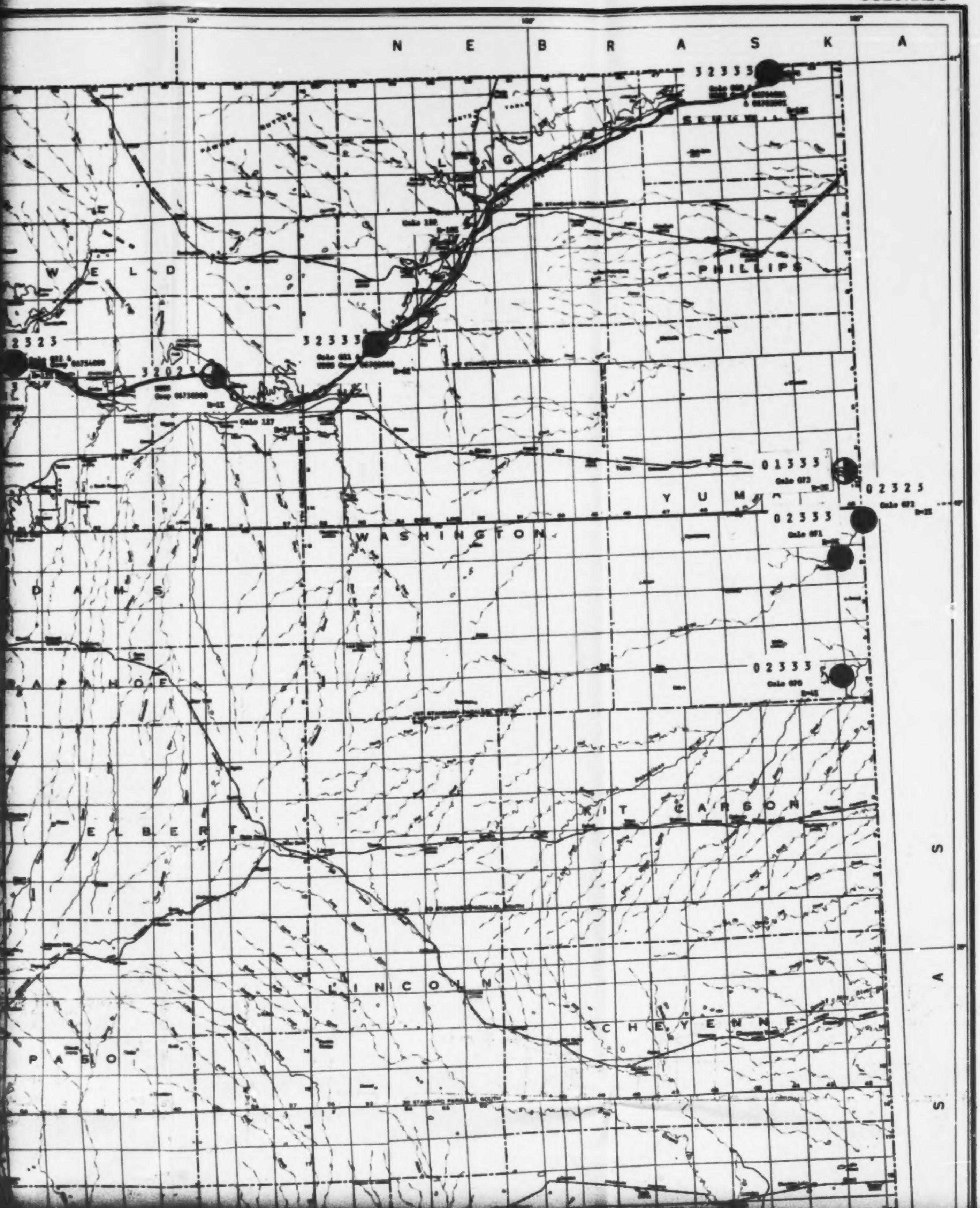
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Colo 130
L O G A N
S E D G W I C K
P H I L L I P S
W E L D
01333
Colo 673
D-35
02325
Colo 672
02333
Colo 671
02333
Colo 670
D-42
Y U M A
W A S H I N G T O N
A D A M S
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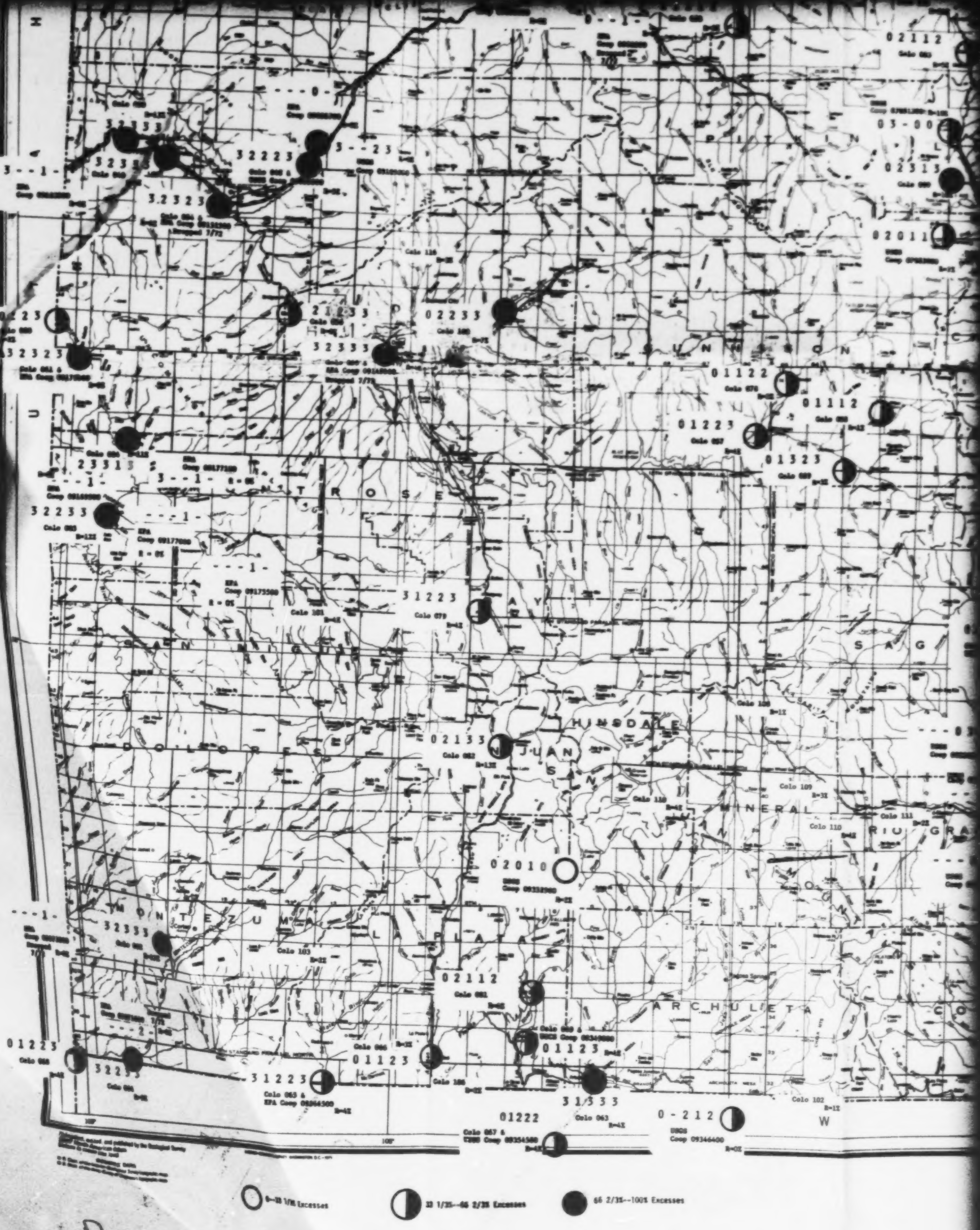
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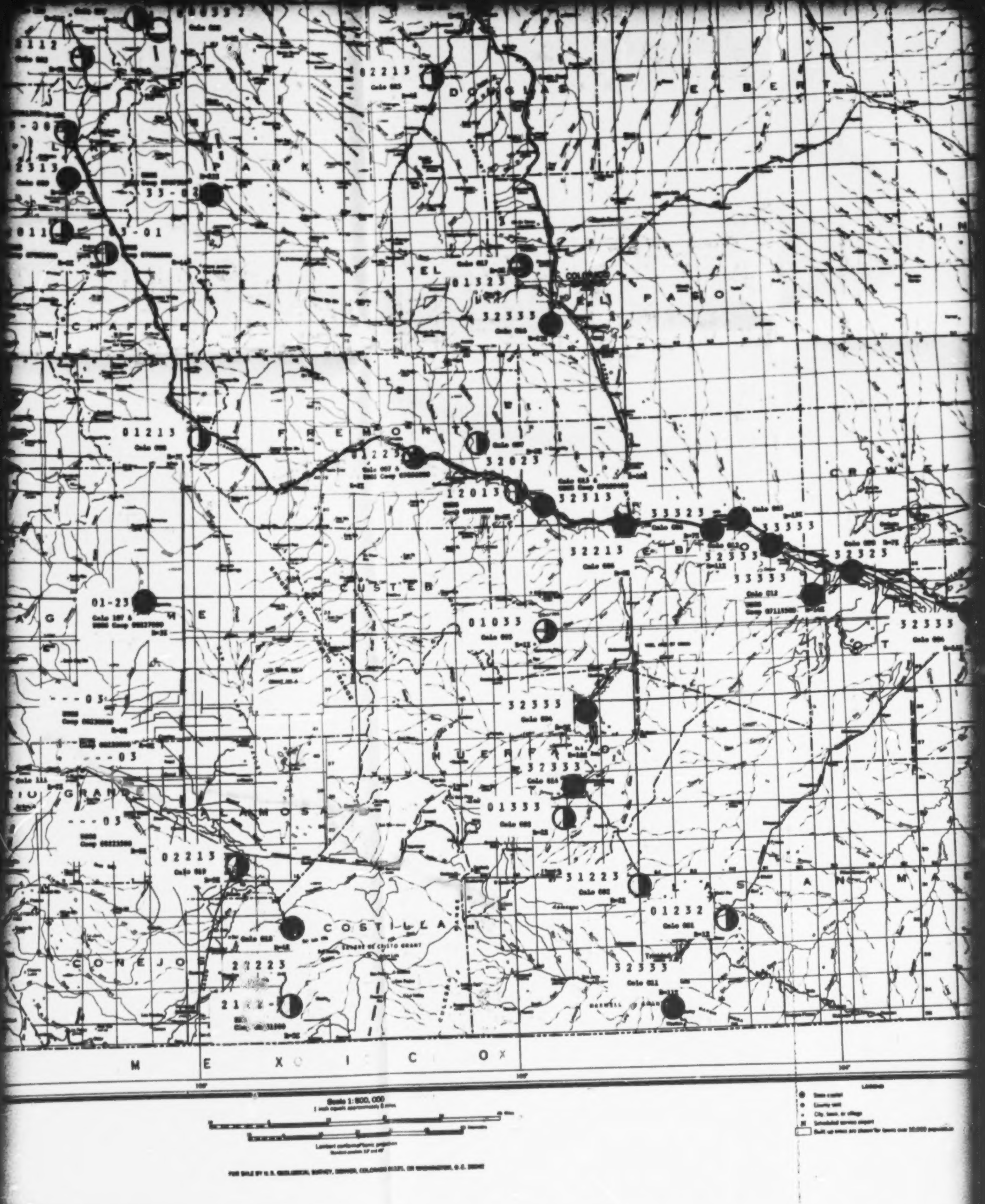
Colo 063
Colo 067 &
USGS Coop 09354500
USGS
Coop 09346400
Colo 102
Colo 103
Colo 109
Colo 110
Colo 111
Colo 063 &
EPA Coop 09364500
USGS
Coop 09332900
EPA
Coop 09177000
EPA
Coop 09173500
GUNNISON
MONTROSE
OURAY
SAN MIGUEL
DOLORES
HINSDALE
SAN JUAN
MINERAL
MONTEZUMA
LA PLATA
ARCHULETA
RIO GRANDE
SAGUACHE
108°
W
0--33 1/3% Excesses
33 1/3%--66 2/3% Excesses
66 2/3%--100% Excesses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ALAMOSA
COSTILLA
CONEJOS
LAS ANIMAS
MEXICO
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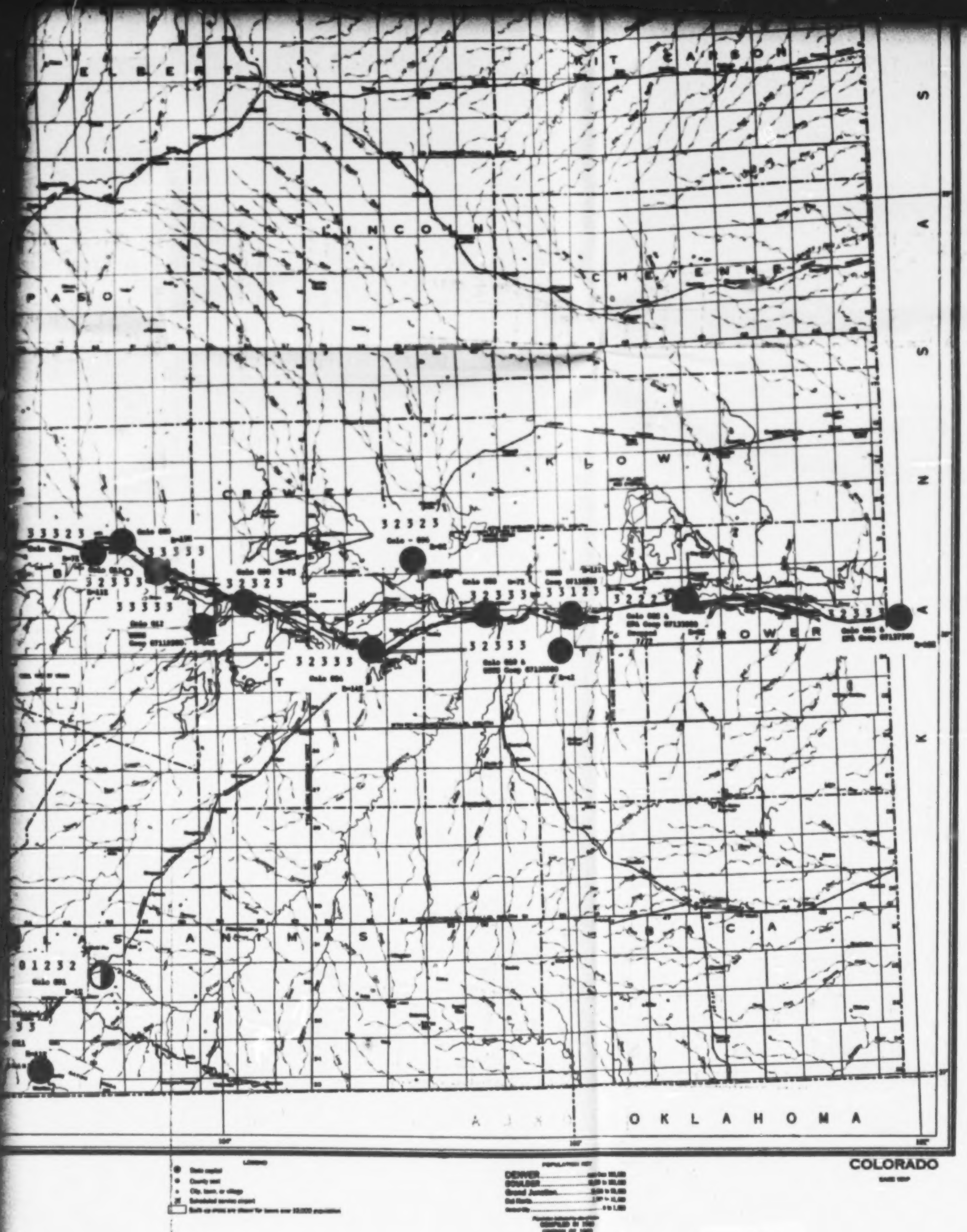
Scale 1:500,000
Lambert conformal conic projection
LEGEND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COLORADO

F

B. Montana

1. State of Montana Water Quality Stations

No water quality data are available as yet in STORET for the limited data collected by the State of Montana.

2. USGS Coop Stations

a. For 29 out of 74 rateable stations, no hazardous materials or ORB group data were available.

b. Eight of 74 stations contained no data in either the TDS, Hazardous Materials, or ORB group.

c. In the Nutrient group, 13 of 63 rateable stations had more than 25% excesses.

d. Of the 74 stations reviewed, a total of 22 had less than 33-1/3% excess, and 31 had excesses higher than 66-2/3%.

e. Rejects were predominant in the Hazardous Materials group, with copper, zinc, and ammonia being the most predominant reject parameter, with lesser rejects for silver, lead, and manganese. Still lesser numbers of rejects were noted for the total coli, fecal coli, and turbidity parameters.

f. Reject percentages were generally less than 10% throughout the State, with high values noted at the Clark's Fork River near Deer Lodge, Montana (15% - mostly copper and zinc).

g. No station received a weighted value percentage of 100%.

h. All of the EPA-Coop stations were rateable in every group.

3. Overview

Many stations were noted along the Yellowstone River, but few were noted on the Missouri. Little data are available for lakes and impoundments in the State.

MONTANA

4. STATION DESCRIPTIONS

MONTANA USGS STATIONS

NUMBER	LOCATION
06018500	Beaverhead River nr Twin Bridges, Mont.
06026500	Jefferson River nr Twin Bridges, Mont.
06058502	Missouri River below Canyon Ferry.
06062010	Prickley Pear Creek below East Helena.
06080000	Sun River nr Augusta, Mont.
06088300	Muddy Creek nr Vaughn, Mont.
06088500	Muddy Creek at Vaughn, Mont.
06089000	Sun River nr Vaughn, Mont.
06090130	Missouri River below Rainbow Dam.
06091850	Tributary to Mission Lake nr Blackfoot.
06091852	Mission Lake nr Blackfoot, Mont.
06091853	Spring Creek at Mission Lake.
06101500	Marias River nr Chester, Mont.
06140500	Milk River at Havre, Mont.
06154100	Milk River nr Harlem, Mont.
06172000	Milk River at Vandalia, Mont.
06174500	Milk River at Nashua, Mont.
06175400	Frazer Reservoir outlet at Frazer.
06177000	Missouri River nr Wolf Point, Mont.
06192500	Yellowstone River nr Livingston, Mont.
06197500	Boulder River nr Contact, Mont.
06202610	Stillwater River at Beehive, Mont.
06207500	Clarks Fork, Yellowstone River nr Belfry, Mont.

NUMBER	LOCATION
06207530	Silver Tip Creek ab Gobblers Draw.
06207540	Silver Tip Creek nr Belfry, Mont.
06214100	Yellowstone River nr Laurel, Mont.
06214500	Yellowstone River at Billings.
06217750	Fly Creek at Pompeys Pillar, Mont.
06216000	Yellowstone River at Custer, Mont.
06287000	Bighorn River nr St. Xavier, Mont.
06288200	Beauvais Creek nr St. Xavier, Mont.
06290500	Little Bighorn River below Pass Creek nr Wyola, Mont.
06294000	Little Bighorn River nr Hardin, Mont.
06294700	Bighorn River at Bighorn, Mont.
06296120	Yellowstone River nr Miles City, Mont.
06308500	Tongue River at Miles City, Mont.
06334000	Little Missouri River nr Alzada, Mont.
12301300	Tobacco River nr Eureka, Mont.
12301500	Kootenai River nr Rexford, Mont.
12301933	Kootenai River nr Libby, Mont.
12301990	Fisher River ab Wolf Creek nr Libby, Mont.
12301997	Wolf Creek nr Libby, Mont.
12302055	Fisher River nr Libby, Mont.
12303400	Ross Creek nr Troy, Mont.
12323750	Silver Bow Creek ab Warm Springs.

NUMBER	LOCATION
12324200	Clarks Fork at Deer Lodge, Mont.
12324600	Clarks Fork at Garrison, Mont.
12328500	Flint Creek nr Philipsburg, Mont.
12331500	Flint Creek nr Drummond, Mont.
12334600	Blackfoot River nr Lincoln, Mont.
12334850	Blackfoot River below Alice Creek nr Lincoln, Mont.
12340500	Clarks Fork ab Missoula, Mont.
12353000	Clarks Fork nr Alberton, Mont.
12355000	Flathead River nr Columbia Falls, Mont.
12355500	Middle Fork, Flathead River at Schafer.
12355900	Middle Fork, Flathead River ab Bear Creek
12358500	Middle Fork, Flathead River nr West Glacier, Mont.
12359800	South Fork, Flathead River nr Hungry Horse, Mont.
12367500	Ashley Creek nr Kalispell, Mont.
12367800	Ashley Creek below Kalispell, Mont.
12369000	Flathead River nr Bigfork.
12371550	Flathead Lake at Polson, Mont.
12389000	Clarks Fork at Plains, Mont.
12391500	Bull River nr Heron, Mont.
13025500	Snake River above reservoir.

MONTANA USGS - EPA STATIONS

NUMBER	LOCATION
06090800	Missouri River at Fort Benton, Montana.
06174200	Milk River nr Glasgow, Montana.
06185500	Missouri River nr Culbertson, Montana.
06191500	Yellowstone River at Corwin Sp., Montana.
06214050	Clarks Fork, Yellowstone River nr Laurel, Montana.
06214100	Yellowstone River nr Laurel, Montana.
06217500	Yellowstone River at Huntly, Montana.
06288500	Big Horn River nr Hardin, Montana.
06324500	Powder River at Moorhead, Montana.
06329500	Yellowstone River nr Sidney, Montana.
12303000	Kootenai River at Libby, Montana.
12323800	Clarks Fork nr Galen, Montana.
12331600	Clarks Fork at Drummond, Montana.
12352980	Bitterroot River at Maclay Bridge nr Missoula, Montana.
12388700	Flathead River at Perma, Montana.
12389000	Clarks Fork at Plains, Montana.
12391000	Clarks Fork at Thompson Falls, Montana.

MONTANA

5. REJECT DATA

REJECT LIST

More than ten excesses in any parameter reported as a range (←→) with % excesses of Y values given in parentheses.
Cu = Copper Zn = Zinc Pb = Lead
Ag = Silver NH_3 = Ammonia

MONTANA

USGS COOP STATIONS

Station #06062010 1/6 = 17% Rejects

Date	Storet # & Desc.	Value
70/10/09	01090 Zn	130 ug/l

Station #06088300 1/320 = 1% Rejects

Date	Storet # & Desc.	Value
70/[illegible]	70300 TDS	2410 mg/l

Station #06090130 1/6 = 17% Rejects

Date	Storet # & Desc.	Value
70/10/13	01090 Zn	18 ug/l

Station #06174500 1/115 = 1% Rejects

Date	Storet # & Desc.	Value
69/05/26	01055 Mn	11,000 ug/l

Station #06202510 2/155 = 4% Rejects

Date	Storet # & Desc.	Value
71/07/20	01090 Zn	20 ug/l
72/06/05	"	20 "

Station #06207540 25/198 = 13% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	3710 ←→ 5680 (25 of 25)

Station #06214100 23/412 = 6% Rejects

Date	Storet # & Desc.	Value
69/09/30	01090 Zn	21 ug/l
70/07/27	"	25 "
71/01/19	"	30 "
72/01/17	"	20 "
70/05/19	3150 Tot Coli	51,000/100 ML
70/06/18	"	" "
70/07/27	"	120,000 "
70/04/29	00070 Turb	70 JTU
70/05/19	"	300 "
Throughout	00610 NH_3	.05 ←→ .35 mg/l (14 of 32)

Station #06214500 16/298 = 5% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.07 ←→ .44 mg/l (12 of 19)
70/06/03	01040 Cu	42 ugl
70/03/01	"	30 "
69/06/12	01090 Zn	40 "
70/05/03	"	17 "

Station #06218000 14/136 = 10% Rejects

Date	Storet # & Desc.	Value
69/07/25	00610 NH_3	.05 mg/l
69/08/25	"	.07 "
69/11/21	"	.26 "
69/12/15	"	.11 "
70/01/28	"	.05 "
70/04/16	"	.17 "
70/05/20	"	.15 "
69/09/30	01090 Zn	37 ug/l
70/05/20	31501 Tot Coli	44,000/100 ML
70/05/15	" " "	41,000 "
70/03/18	00070 Turb	60 JTU
70/04/16	"	55 "
70/05/20	"	300 "
70/05/15	"	150 "

Station #06227000 2/416 = 1% Rejects

Date	Storet # & Desc.	Value
70/04/20	00610 NH_3	.[illegible] mg/l
69/09/30	01090 Zn	23 ug/l

Station #06288200 24/503 = 5% Rejects

Date	Storet # & Desc.	Value
70/05/05	01040 Cu	25 ug/l
69/08/27	01090 Zn	20 "
70/05/05	"	13 "
70/10/07	"	30 "
71/05/13	"	20 "
72/03/16	"	30 "
Throughout	31501 Tot Coli	23,000 ←→ 1,500,000/100 ML ([illegible] of 43)

Station #06324500 44/414 = 11% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.[illegible] ←→ .[illegible] mg/l (15 of 31)
69/07/22	70300 TDS	2230 mg/l
69/08/20	"	2240 "
69/09/25	"	2150 "
[illegible]	"	2200 "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
[illegible]	01040 Cu	27 ug/l
[illegible]	"	30 "
[illegible]	01090 Zn	32 "
71/06/03	"	[illegible] "
[illegible]	"	20 "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
69/12/1[illegible]	31501 Tot Coli	35,000/100 ML
70/01/22	"	46,000 "
70/0[illegible]/26	"	83,000 "
70/[illegible]/25	"	21,000 "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
[illegible]	31616 Fecal Coli	[illegible]/100 ML
69/07/22	00070 Turb	[illegible] JTU
69/10/21	"	180 "
69/11/25	"	190 "
70/01/22	"	120 "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
[illegible]	"	10,[illegible] "
70/06/17	"	3500 "

Station #06334000 3/30 = 10% Rejects

Date	Storet # & Desc.	Value
69/08/24	70300 TDS	2370 mg/l
69/10/22	"	[illegible] "
70/07/21	"	[illegible] "

NOTE: Number of reject values are greater than values on the water quality assessment form (in most cases) due to using a different period of record.

REJECT LIST

MONTANA — USGS COOP STATIONS (Cont.)

Station #12301300 — 6/96 = 6% Rejects

Date	Storet # & Desc.	Value
71/05/20	00610 NH_3	0.05 mg/1
72/01/10	"	0.07 "
72/04/11	"	0.06 "
71/05/20	01090 Zn	30 ug/1
72/01/10	"	20 "
72/04/11	"	20 "

Station #12301500 — 37/581 = 6% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.05 ←→ .56 mg/1 (2. of 35)
Throughout	01090 Zn	20 ←→ .8 ug/1 (14 of 20)

Station #12301933 — 68/1047 = 6% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.06 ←→ .90 mg/1 (37 of 53)
72/03/13	01042 Cu	50 ug/1
72/04/04	"	40 "
72/05/26	"	40 "
72/03/07	"	40 "
Throughout	01092 Zn	20 ←→ 180 ug/1 (25 of 36)
70/06/04	00070 Turb	58 JTU
71/09/10	"	75 "

Station #12301990 — 2/143 = 1% Rejects

Date	Storet # & Desc.	Value
69/04/03	00070 Turb	73 JTU
70/05/06	"	80 "

Station #12301999 — 4/347 = 1% Rejects

Date	Storet # & Desc.	Value
69/10/15	00610 NH_3	.08 mg/1
70/07/06	01040 Cu	23 ug/1
70/01/12	00070 Turb	180 JTU
70/05/06	"	53 "

Station #12302055 — 16/606 = 2% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.05 ←→ .31 mg/1 (10 of 33)
70/07/06	01040 Cu	33 ug/1
70/05/06	00070 Turb	98 JTU
70/01/12	01090 Zn	14 ug/1
71/01/19	" "	30 "
72/04/10	" "	20 "
72/07/10	" "	20 "

Station #12323750 — 1/6 = 17% Rejects

Date	Storet # & Desc.	Value
70/10/07	01090 Zn	440 ug/1

Station #12321200 — 81/535 = 15% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.05 ←→ .58 mg/1 (19 of 38)
Throughout	01040 Cu	20.50 ←→ 075 ug/1 (24 of 30)
68/09/20	01049 Pb	135.0 ug/1
70/05/15	01075 Ag	4.0 "
Throughout	01090 Zn	36 ←→ 1310 ug/ (35 of 36)
70/10/08	31616 Fecal Coli	11,000/100 ML

Station #12324600 — 67/550 = 12% Rejects

Date	Storet # & Desc.	Value
Throughout	01040 Cu	21 ←→ 600 ug/1 (19 of 33)
68/05/07	01049 Pb	102 ug/1
Throughout	00610 NH_3	.06 ←→ .43 mg/1 (15 of 36)
Throughout	01090 Zr	20 ←→ 1150 ug/1 (33 of 33)

Station #12329500 — 3/54 = 6% Rejects

Date	Storet # & Desc.	Value
72/04/13	00610 NH_3	.02 mg/1
72/05/14	"	.06 "
72/04/13	01090 Zr	20 ug/1

Station #12330100 — 1/7 = 13% Rejects

Date	Storet # & Desc.	Value
70/10/07	01090 Zn	27 ug/1

Station #[illegible] — 3/54 = 6% Rejects

Date	Storet # & Desc.	Value
7[illegible]/12	00610 NH_3	[illegible] mg/1
72/07/10	"	.06 "
72/04/13	01090 Zn	20 ug/1

Station #12334500 — 3/259 = 1% Rejects

Date	Storet # & Desc.	Value
[illegible]	01090 Zn	5[illegible]0 ug/1
[illegible]	"	550 "
[illegible]	"	4[illegible]0 "

Station #[illegible] — 55/889 = 6% Rejects

Date	Storet # & Desc.	Value
69/01/22	00610 NH_3	0.07 mg/1
69/02/19	" "	0.15 "
69/05/13	" "	0.05 "
[illegible]	" "	0.14 "
[illegible]	" "	0.12 "
[illegible]	" "	0.0[illegible] "
71/01/27	" "	0.0[illegible] "
71/03/03	" "	0.05 "
71/05/04	" "	0.09 "
68/05/07	01040 Cu	37.0 ug/1
68/08/27	" "	20.7 "
[illegible]	" "	[illegible] "
69/05/13	" "	59.0 "
69/07/10	" "	25.0 "
70/01/09	" "	25.0 "
70/03/04	" "	54.0 "
71/03/03	" "	42.0 "
68/04/16	01049 Pb	171.0 "
[illegible]	" "	213.0 "
70/05/09	01075 Ag	3.0 "
Throughout	01090 Zn	11 ←→ 385 ug/1 (32 of 36)

Station #12358500 — 1/221 = 5% Rejects

Date	Storet # & Desc.	Value
70/06/01	00070 Turb	55 JTU

REJECT LIST

MONTANA

USGS COOP STATIONS (Cont.)

Station #12359800 — 1/20 = 5% Rejects

Date	Storet # & Desc.	Value
70/05/28	00070 Turb	395 JTU

Station #12367500 — 5/75 = 7% Rejects

Date	Storet # & Desc.	Value
70/11/13	00300 D.O.	2.3 mg/1
69/05/14	00610 NH_3	0.05 "
69/07/08	" "	0.18 "
69/10/16	" "	0.20 "
70/01/13	" "	0.10 "

Station #12367800 — 9/80 = 11% Rejects

Date	Storet # & Desc.	Value
70/01/13	00300 D.O.	2.8 mg/1
70/04/14	" "	1.6 "
69/07/08	31501 Tot Coli	230,000/100 ML
69/04/22	00610 NH_3	0.19 mg/1
69/05/13	" "	0.29 "
69/07/08	" "	0.68 "
69/10/14	" "	1.70 "
70/01/13	" "	3.20 "
70/04/13	" "	0.59 "

Station #12369000 — 23/386 = 6% Rejects

Date	Storet # & Desc.	Value
69/05/13	00610 NH_3	0.13 mg/1
70/02/09	" "	0.05 "
70/10/14	" "	0.06 "
70/12/10	" "	0.08 "
71/03/15	" "	0.39 "
71/06/07	" "	0.09 "
69/03/18	01040 Cu	200 ug/1
69/05/13	" "	34 "
70/04/13	" "	30 "
69/03/18	01090 Zn	95.5 "
69/04/22	" "	12 "
69/05/13	" "	125 "
69/06/11	" "	70 "
69/09/15	" "	11 "
69/11/11	" "	19 "
70/02/09	" "	18 "
70/03/16	" "	17 "
70/04/13	" "	25 "

Station #12369000 (Cont.)

Date	Storet # & Desc.	Value
70/05/11	01090 Zn	11 ug/1
70/10/14	"	20 "
71/01/21	"	30 "
69/05/13	00070 JTU	55 "
70/06/08	"	55 "

Station #12334650 — 7/301 = 2% Rejects

Date	Storet # & Desc.	Value
70/10/15	01090 Zn	20 ug/1
71/05/14	"	40 "
71/10/14	"	20 "
72/01/19	"	20 "
72/05/23	"	30 "
72/04/19	00610 NH_3	0.05 mg/1
72/05/23	"	0.05 "

Station #12340500 — 49/581 = 8% Rejects

Date	Storet # & Desc.	Value
68/05/07	01040 Cu	27 ug/1
68/10/08	"	20.9 ug/1
69/03/18	"	28 "
69/03/18	"	38 "
69/04/23	"	24.4 "
69/05/13	"	530 "
70/05/13	"	25 "
70/07/12	"	22 "
70/09/10	"	63 "
71/03/03	"	32 "
68/04/16	01049 Pb	133 "
68/05/07	"	118 "
Throughout	01090 Zn	13 <—> 360 ug/1 (29 of 35)
70/06/10	00070 Turb	55 JTU
69/04/23	00610 NH_3	0.06 mg/1
69/07/10	"	0.14 "
69/09/18	"	0.06 "
70/02/11	"	0.07 "
70/05/13	"	0.06 "
71/03/03	"	0.05 "
71/06/02	"	0.03 "

Station #12371550 — 18/448 = 4% Rejects

Date	Storet # & Desc.	Value
69/07/07	00610 NH_3	0.2 mg/1
70/10/14	"	[illegible] "
71/03/16	"	0.34 "
71/05/17	"	0.06 "
71/06/07	"	0.10 "
69/03/18	01090 Cu	50 ug/1
69/05/13	"	51 "
70/03/16	01075 Ag	13 "
[illegible]	"	5 "
69/03/18	01090 Zn	33 "
69/05/13	"	130 "
69/06/11	"	17.1"
69/08/11	"	18 "
69/09/15	"	14 "
69/11/10	"	15 "
70/02/09	"	14 "
70/03/16	"	26 "
70/07/21	"	10 "

Station #12391600 — 1/12 = 8% Rejects

Date	Storet # & Desc.	Value
71/05/04	01092 Zn	50 ug/1

REJECT LIST

MONTANA USGS - EPA STATIONS

Station #06090800 10/330 = 3% Rejects

Date	Storet # & Desc.	Value
70/07/09	01075 Ag	3 ug/1
70/07/09	01090 Zn	12 "
70/10/13	"	20 "
71/01/20	"	30 "
71/10/05	"	40 "
72/01/11	"	30 "
72/04/05	"	30 "
70/01/08	00070 Turb	230 JTU
70/05/04	"	110 "
70/06/04	"	60 "

Station #06174200 24/417 = 6% Rejects

Throughout	00610 NH_3	.05 ←→ .51 mg/1 (19 of 34)
69/09/30	01040 Cu	30 ug/1
69/07/21	00070 Turb	400 JTU
70/04/08	"	560 "
70/05/05	"	1300 "
70/06/03	"	75 "

Station #06195500 33/418 = 8% Rejects

Throughout	00610 NH_3	.05 ←→ .74 mg/1 (21 of 34)
70/07/07	01040 Cu	22 ug/1
70/07/07	01090 Zn	19 "
69/07/21	00070 Turb	140 JTU
69/10/08	"	53 "
70/04/08	"	190 "
70/05/05	"	170 "
70/09/21	31616 Fecal Coli	7000/100 ML
71/09/21	00610 NH_3	0.13 mg/1
71/11/22	"	0.13 "
72/02/29	"	0.13 "
72/03/27	"	0.07 "
72/06/27	"	0.17 "

Station #06191500 17/296 = 6% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.05 ←→ .13 mg/1 (14 of 20)
69/09/30	01040 Cu	29 ug/1
69/09/30	01090 Zn	30 "
71/04/27	"	20 "

Station #06217500 1/16 = 6% Rejects

70/10/08	01090 Zn	27 ug/1

Station #06288500 18/267 = 7% Rejects

Throughout	00610 NH_3	.05 ←→ .59 mg/1 (17 of 33)
71/05/14	31616 Fecal Coli	7700/100 ML

Station #06329500 13/315 = 4% Rejects

Throughout	00610 NH_3	.05 ←→ .25 mg/1 (13 of 26)

Station #06214050 24/423 = 6% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.05 ←→ .34 mg/1 (16 of 33)
69/09/30	01090 Zn	22 ug/1
72/01/17	"	20 "
69/12/16	31501 Tot Coli	840,000/100 ML
70/02/17	"	50,000 "
70/05/19	"	77,000 "
70/06/18	"	24,000 "
70/07/27	"	240,000 "
70/04/29	00070 Turb	110 JTU
70/05/19	"	420 "
70/06/18	"	70 "

Station #12303000 24/524 = 5% Rejects

Throughout	00610 NH_3	.05 ←→ .49 mg/1 (18 of 40)
69/09/[illegible]	01090 Zn	30 ug/1
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
71/12/14	"	20 "
72/01/2[illegible]	"	20 "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
[illegible]	"	[illegible] "
[illegible]	00070 Turb	[illegible] JTU
[illegible]		[illegible] "
[illegible]	"	[illegible] "
71/10/12	"	60 "

Station #[illegible] [illegible] = [illegible]% Rejects

71/[illegible]	01040 Cu	30 ug/1
71/10/1[illegible]	"	[illegible] "
Throughout	01090 Zn	[illegible] ←→ 330 ug/1 (10 of 10)
71/12/10	00070 Turb	[illegible] JTU
71/0[illegible]/25	00610 NH_3	[illegible] mg/1
71/10/1[illegible]	"	0.1[illegible] "
72/01/2[illegible]	"	0.[illegible] "
72/04/1[illegible]	"	0.[illegible] "

REJECT LIST

MONTANA

USGS - EPA STATIONS (Cont.)

Station #12331600 — 11/152 = 7% Rejects

Date	Storet # & Desc.	Value
71/07/24	01090 Zn	30 ug/l
71/09/15	"	20 "
71/11/17	"	50 "
71/12/09	"	60 "
72/01/06	"	80 "
72/02/16	"	100 "
72/03/21	"	32 "
72/04/17	"	30 "
71/09/15	00610 NH_3	0.10 mg/l
71/10/13	"	0.07 "
72/01/05	"	0.17 "

Station #12352980 — 7/275 = 3% Rejects

71/06/03	00610 NH_3	0.43 mg/l
71/06/03	"	0.07 "
71/07/24	"	0.07 "
72/01/06	"	0.06 "
71/12/09	01090 Zn	30 ug/l
72/01/06	"	20 "
72/03/21	"	20 "

Station #12398700 — 4/186 = 2% Rejects

71/11/10	01090 Zn	30 ug/l
71/10/13	00610 NH_3	0.06 mg/l
72/01/07	"	0.06 "
72/04/13	"	0.08 "

Station #12389000 — 18/382 = 5% Rejects

69/03/17	01040 Cu	46 ug/l
69/05/13	"	100 "
Throughout	01090 Zn	11 ←→ 210 ug/l (13 of 19)
69/02/19	00610 NH_3	0.16 mg/l
69/07/09	"	0.10 "
69/09/17	"	0.06 "

Station #12391000 — 36/670 = 5% Rejects

Throughout	00610 NH_3	.05 ←→ .34 mg/l (11 of 32)

Station #12391000 (Cont.)

Date	Storet # & Desc.	Value
69/03/17	01040 Cu	225 ug/l
69/05/13	"	30 "
70/02/10	"	25 "
70/05/13	"	25 "
Throughout	01090 Zn	12 ←→ 165 ug/l (21 of 32)

MONTANA

6. DATA REDUCTION FORMS

MONTANA EPA/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III ORB WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	WEIGHTED RATING Rated Weight	Max Weight	%
USGS-EPA 06041000	New																			
" " 0654500	New																			
" " 06090800	7/69-7/72	0	34	1	41	116	35	12	105	11	13	114	11	1	21	5	0 3 2 2 1	25	36	69
" " 06174200	7/69-7/72	30	34	88	42	122	34	21	100	21	18	107	17	3	20	15	3 3 2 2 2	30	36	83
" " 06185500	1/68-7/72	1	69	1	13	62	21	1	57	2	13	142	9	4	54	7	1 2 1 1 1	17	36	47
" " 06191500	7/69-7/72	0	22	0	22	98	22	1	65	2	7	74	9	1	17	6	0 2 1 1 1	16	36	44
" " 06208800	New																			
" " 06214050	7/69-7/72	8	33	24	30	128	23	19	100	19	14	110	13	10	19	53	2 2 2 2 3	26	36	72
" " 06217500	New																			
" " 06288500	7/69-7/72	27	33	82	29	47	62	7	67	10	0	71	0	2	17	12	3 3 2 0 2	19	36	53
" " 06214100	7/69-5/72 Dropped	0	32	0	28	126	22	17	98	17	9	106	8	1	18	6	0 2 2 1 1	28	36	78
" " 06324500	7/69-7/72 Dropped	32	32	100	32	123	26	18	101	18	23	109	21	4	17	23	3 3 2 2 2	30	36	84

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATINGS)

Station Number(s) USGS-EPA	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III ORB WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–)=Not Rateable	WEIGHTED RATING Rated Items	Max. Weight	%
06329500	6/68-7/72	28	62	45	13	25	52	1	29	3	5	119	5	7	55	13	3 3 1 1 2	26	36	72
" " 12303000	3/68-7/72	0	15	0	31	93	33	2	150	1	15	171	9	14	55	25	0 3 1 1 3	25	36	69
" " 12323800	7/71-7/72	1	1	100	21	38	55	6	46	13	4	45	8	1	9	11	- 3 2 1 2	26	33	79
" " 12331600	7/71=7/72	1	1	100	14	46	30	2	48	4	1	43	2	3	10	30	- 3 1 1 3	25	33	76
" " 12352980	7/70-7/72	0	3	0	12	67	18	6	90	7	1	75	1	4	26	15	- 2 1 1 2	18	33	55
" " 12388700	7/71-7/72	0	1	0	7	56	13	0	48	0	0	67	0	0	10	0	- 2 0 0 0	10	33	30
" " 12391000	3/69-7/72	0	17	0	42	288	15	0	142	0	9	147	6	1	44	2	0 2 0 1 1	13	36	36
13022500	1/72-9/72	0	8	0	0	0	0	0	0	0	0	8	0	0	8	0	- - - - -	x	x	

MONTANA USGS/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
06018500	1/68-7/72	10	80	13	1	1	100	0	0	0	3	138	2	5	109	5	2 - - 1 1	5	12	4
06026500	1/68-7/72	0	100	0	0	0	0	0	0	0	0	165	0	9	136	7	0 - - 0 1	2	12	1
06058502	1/68-7/72	0	59	0	0	1	0	0	0	0	0	113	0	4	85	5	0 - - 0 1	2	12	1
06080900	1/68-7/72	0	72	0	0	0	0	0	0	0	2	130	2	1	101	1	0 - - 1 1	3	12	2
06088300	7/68-7/72	45	70	64	0	0	0	0	0	0	1	141	1	34	109	50	3 - - 1 3	10	12	8
06088500	1/68-9/68	11	23	48	0	0	0	0	0	0	1	28	4	11	23	48	3 - - 1 3	10	12	8
0608900	10/68-7/72	18	34	53	0	0	0	0	0	0	2	99	2	24	142	17	3 - - 1 2	8	12	6
06091850	5/71-10/71	0	1	1	0	19	0	0	0	0	2	30	6	0	19	0	- 0 - 1 0	1	24	
06091852	8/71-6/72	0	1	0	0	0	0	0	0	0	2	21	10	7	22	32	- - - 1 3	x	x	
06091853	4/71-10/71	0	0	0	0	0	0	0	0	0	5	24	21	8	34	24	- - - 2 2	x	x	
06101500	1/68-8/72	0	62	0	0	1	0	0	0		1	109	1	0	85	0	0 - - 1 0	1	12	
06140500	1/68-6/72	0	77	0	0	1	0	0	0	0	6	132	5	3	106	3	0 - - 1 1	3	12	2

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORD WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(–)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	
06154100	5/68-9/69	0	25	0	0	1	0	0	0	0	2	30	7	1	25	4	0 - - 1 1	3	12	25
06172000	10/69-7/72	30	47	0	0	0	0	0	0	0	5	110	5	5	78	6	0 - - 1 1	3	12	25
06174500	6/68-9/71	11	13	85	1	2	50	0	0	0	5	34	15	3	18	17	3 - - 2 2	9	12	75
06175400	9/69-7/72	2	7	29	0	0	0	0	0	0	5	27	19	11	21	52	3 - - 2 3	11	12	92
06177000	1/68-7/72	0	20	0	0	0	0	0	0	0	0	72	0	1	38	3	0 - - 0 1	2	12	17
06192500	10/69-6/72	0	34	0	0	0	0	0	0	0	0	84	0	8	63	13	0 - - 0 2	4	12	33
06197500	10/70-6/72	0	0	0	0	52	0	0	0	0	0	7	0	0	0	0	- 0 - 0 1	2	24	8
06202610	11/70-7/72	0	1	0	3	46	7	0	17	0	0	62	0	2	29	7	- 1 0 0 1	7	33	21
06207500	1/68-6/72	0	64	0	0	0	0	0	0	0	0	91	0	0	65	0	0 - - 0 0	0	12	0
06207530	6/71-6/71	0	0	0	0	6	0	0	0	0	1	2	50	1	2	50	- - - - -	x	x	
06207540	10/68-7/72	25	25	100	0	0	0	0	0	0	4	94	4	19	79	24	3 - - 1 2	8	12	67
06214500	6/71-6/71	0	47	0	23	74	31	0	0	0	0	101	0	19	57	33	0 3 - 0 3	21	24	88

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	I TDS Values	I TDS %	II HAZ. MATERIALS WEIGHT = 5 Excesses	II HAZ. MATERIALS Values	II HAZ. MATERIALS %	III CCB WEIGHT = 3 Excesses	III CCB Values	III CCB %	IV FIELD WEIGHT = 1 Excesses	IV FIELD Values	IV FIELD %	V NUTRIENT WEIGHT = 2 Excesses	V NUTRIENT Values	V NUTRIENT %	RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(--)=Not Rateable	WEIGHTED RATING Rated Weight	WEIGHTED RATING Max Weight	WEIGHTED RATING %
06217750	10/60-8/72	71	83	86	0	1	0	0	0	0	0	150	0	6	124	5	3 - - 0 1	5	12	42
06218000	7/69-6/70	0	12	0	1	20	5	12	36	33	9	45	20	0	11	0	0 1 3 2 0	16	33	48
06287000	1/68-7/72	72	78	92	2	20	10	0	35	0	0	167	0	1	105	1	3 2 0 0 1	15	36	42
06288200	1/68-7/72	41	42	98	12	68	18	34	133	26	2	182	1	31	78	40	3 2 3 1 3	29	36	81
06290500	10/69-7/72	2	36	6	0	0	0	0	0	0	0	101	0	3	68	4	1 - - 0 1	3	12	25
06294000	10/69-8/72	16	39	41	0	0	0	0	0	0	2	105	2	1	77	1	3 - - 1 1	6	12	50
06294700	1/68-7/72	39	42	93	0	0	0	0	0	0	0	72	0	0	23	0	3 - - 0 0	3	12	25
06296120	10/68-8/72	30	86	35	0	0	0	0	0	0	2	146	1	4	117	3	3 - - 1 1	6	12	50
06308500	1/68-8/72	37	70	53	0	0	0	0	0	0	3	10	3	0	27	0	3 - - 1 0	4	12	33
06334000	[illegible]	5	5	100	0	0	0	0	0	0	0	10	0	0	5	0	- - - 0 -	x	x	
12301300	1/71-7/72	0	5	0	11	64	17	0	6	0	2	28	7	3	13	23	- 2 - 1 2	15	24	63
12301500	1/68-7/72	0	43	0	49	237	21	0	33	0	6	151	4	41	82	50	0 2 0 1 3	17	36	45

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III ORB WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% +	WEIGHTED RATIO Ratio	Weight-Max	%
12[illegible]	1/68-8/72	0	89	0	97	469	21	0	45	0	15	249	6	43	142	30	0 2 0 1 3	47	33	52
12301990	1/68-9/70	0	31	0	0	1	0	0	17	0	4	93	4	0	31	0	0 - 0 1 0	1	33	5
12301999	1/68-9/70	0	71	0	4	55	7	0	14	0	3	112	3	1	83	1	0 1 0 1 1	8	35	24
12302055	1/68-7/72	0	87	0	24	158	15	0	33	0	7	188	4	8	107	7	0 2 0 1 1	13	24	54
12303400	11/70-5/71	0	0	0	0	15	0	0	0	0	0	1	0	0	0	0	- 1 - - -	x		
12323750	10/70-10/71	0	0	0	1	5	20	0	0	0	0	1	0	0	0	0	- 2 - - -	x	x	
12324200	4/68-6/71	15	16	94	93	212	44	13	102	13	8	121	7	17	46	37	3 3 2 1 3	31	36	86
12324600	4/68-6/71	13	15	86	80	255	31	8	100	8	4	118	3	15	44	34	3 3 1 1 3	28	36	78
12328500	4/72-7/72	0	0	0	5	24	21	0	9	0	0	12	0	1	6	17	- 2 - 0 2	14	24	58
12331500	4/72-7/72	0	0	0	6	24	25	1	9	11	0	12	0	1	6	17	- 3 2 0 2	25	33	76
12334600	9/68-9/70	0	53	0	11	26	42	0	22	0	0	148	0	1	50	2	0 3 0 0 1	17	36	47
12334650	10/70-6/72	0	6	0	9	62	15	0	20	0	1	139	1	3	70	4	- 2 0 1 1	13	33	39

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

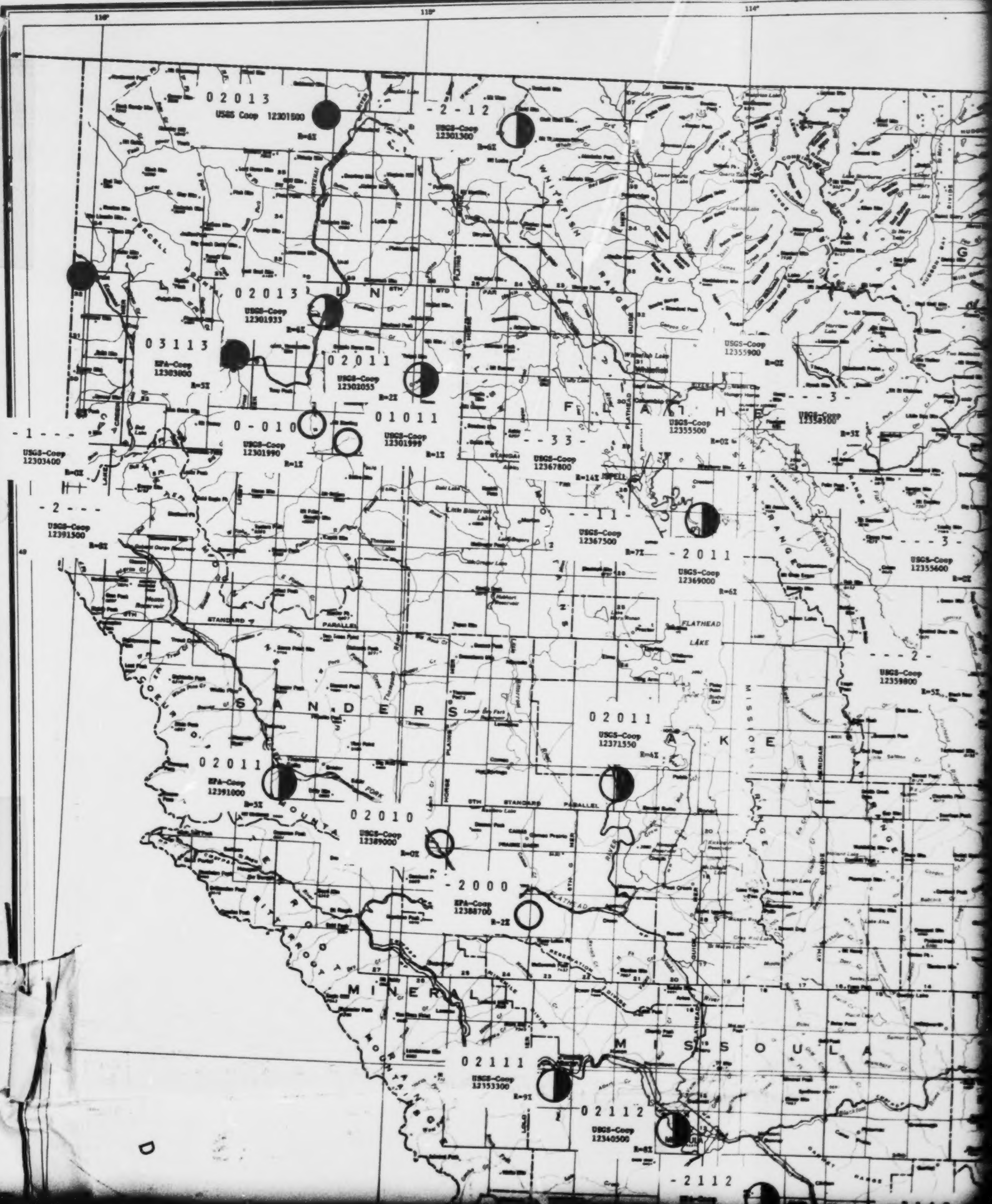
Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
12340500	4/68-6/71	0	16	0	55	264	21	4	100	4	7	120	6	5	44	11	0 2 1 1 2	18	36	50
12353300	4/68-6/71	0	15	0	55	287	19	3	82	4	5	121	4	3	45	7	0 2 1 1 1	16	36	44
12355500	5/70-7/70	0	1	0	0	8	0	0	4	0	0	8	0	0	1	0	- - - - -	x	x	
12355600	6/70-6/70	0	0	0	0	0	0	0	2	0	1	3	77	0	0	0	- - - 3 -	x	x	
12355900	5/70-7/70	0	1	0	0	8	0	0	2	0	0	5	0	0	1	0	- - - - -	x	x	
12358500	5/70-7/70	0	1	0	0	8	0	0	4	0	2	8	25	0	1	0	- - - 3 -	x	x	
12359800	5/70-7/70	0	1	0	0	6	0	0	4	0	1	8	13	0	1	0	- - - 2 -	x	x	
12367500	11/68-4/70	0	4	0	0	7	0	1	19	5	2	31	6	0	7	0	- - 1 1 -	x	x	
12367800	10/68-4/70	0	4	0	0	8	0	11	20	55	9	33	27	0	7	0	- - 3 3 -	x	x	
12369000	3/69-6/71	0	15	0	24	127	19	0	90	0	4	92	4	2	35	6	- 2 0 1 1	13	33	39
12371550	3/69-6/71	0	15	0	22	187	12	0	91	0	3	93	3	2	35	6	0 2 0 1 1	13	36	36
12389000	4/68-6/70	0	12	0	19	160	12	0	50	0	4	96	4	0	27	0	0 2 0 1 0	11	36	31

REGION VIII
WATER QUALITY ASSESSMENT

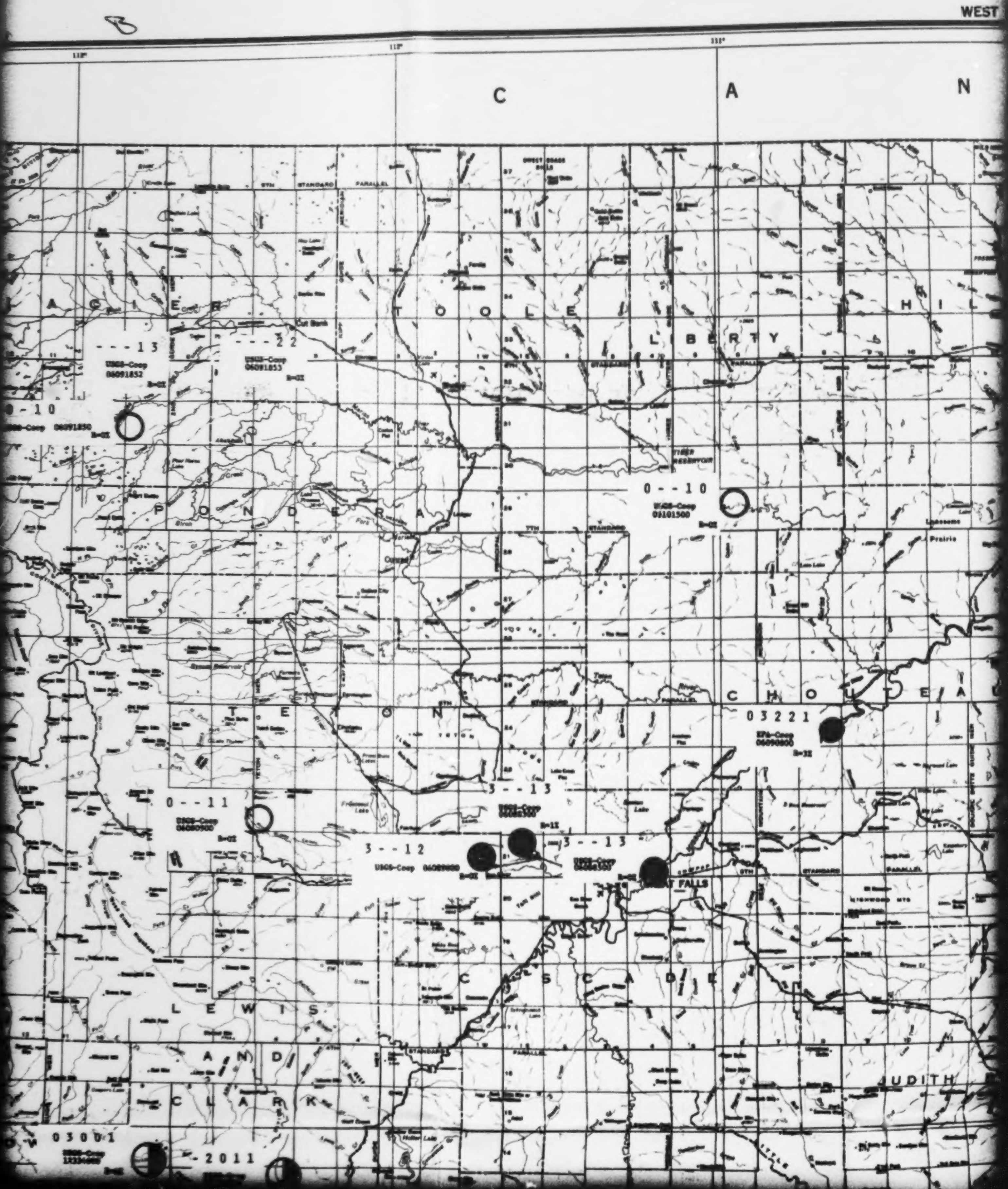
PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III O&G WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	[illegible] Dash(—)=No Rating	Weight [illegible]
12291500	11/70-5/71	0	0	0	1	10	10	0	0	0	0	2	0	0	0	[illegible]	— — — — —	[illegible]

A

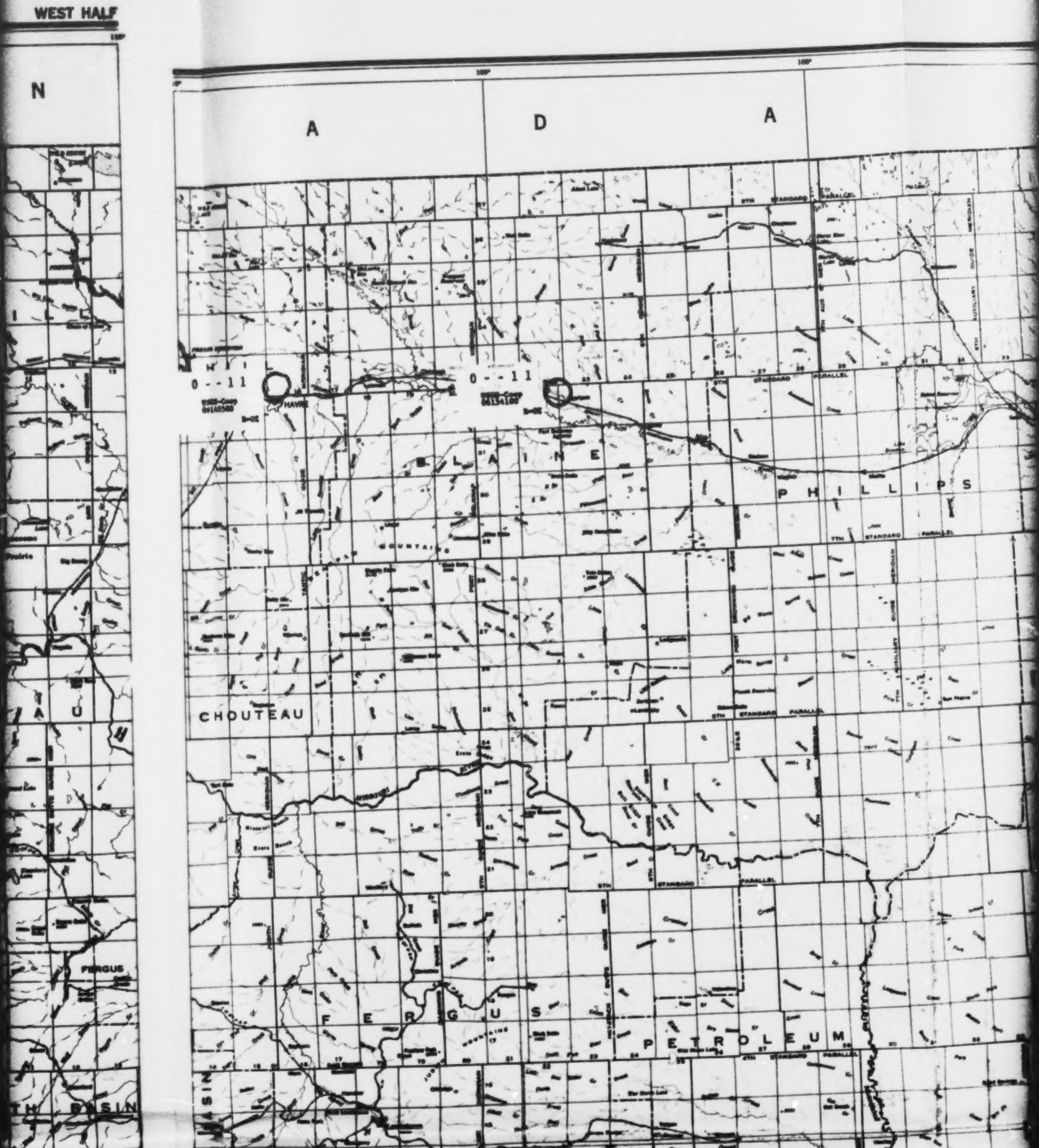

116°
115°
114°
49°
48°
02013
USGS Coop 12301500
R=6%
-2-12
USGS-Coop 12301300
R=6%
02013
USGS-Coop 12301933
R=6%
03113
EPA-Coop 12303000
R=5%
02011
USGS-Coop 12302055
R=2%
01011
USGS-Coop 12301999
R=1%
0-010
USGS-Coop 12301990
R=1%
-1---
USGS-Coop 12303400
R=0%
-2---
USGS-Coop 12391500
R=8%
USGS-Coop 12355900
R=0%
---3-
USGS-Coop 12358500
R=3%
USGS-Coop 12355500
R=0%
--33-
USGS-Coop 12367800
R=14%
--11-
USGS-Coop 12367500
R=7%
-2011
USGS-Coop 12369000
R=6%
---3-
USGS-Coop 12355600
R=0%
---2-
USGS-Coop 12359800
R=5%
02011
USGS-Coop 12371550
R=4%
02011
EPA-Coop 12391000
R=5%
02010
USGS-Coop 12389000
R=0%
-2000
EPA-Coop 12388700
R=2%
02111
USGS-Coop 12353300
R=9%
02112
USGS-Coop 12340500
R=8%
-2112
LINCOLN
FLATHEAD
SANDERS
LAKE
MINERAL
MISSOULA
FLATHEAD LAKE
WHITEFISH RANGE
MISSION RANGE
STANDARD PARALLEL
5TH STANDARD PARALLEL
D

8

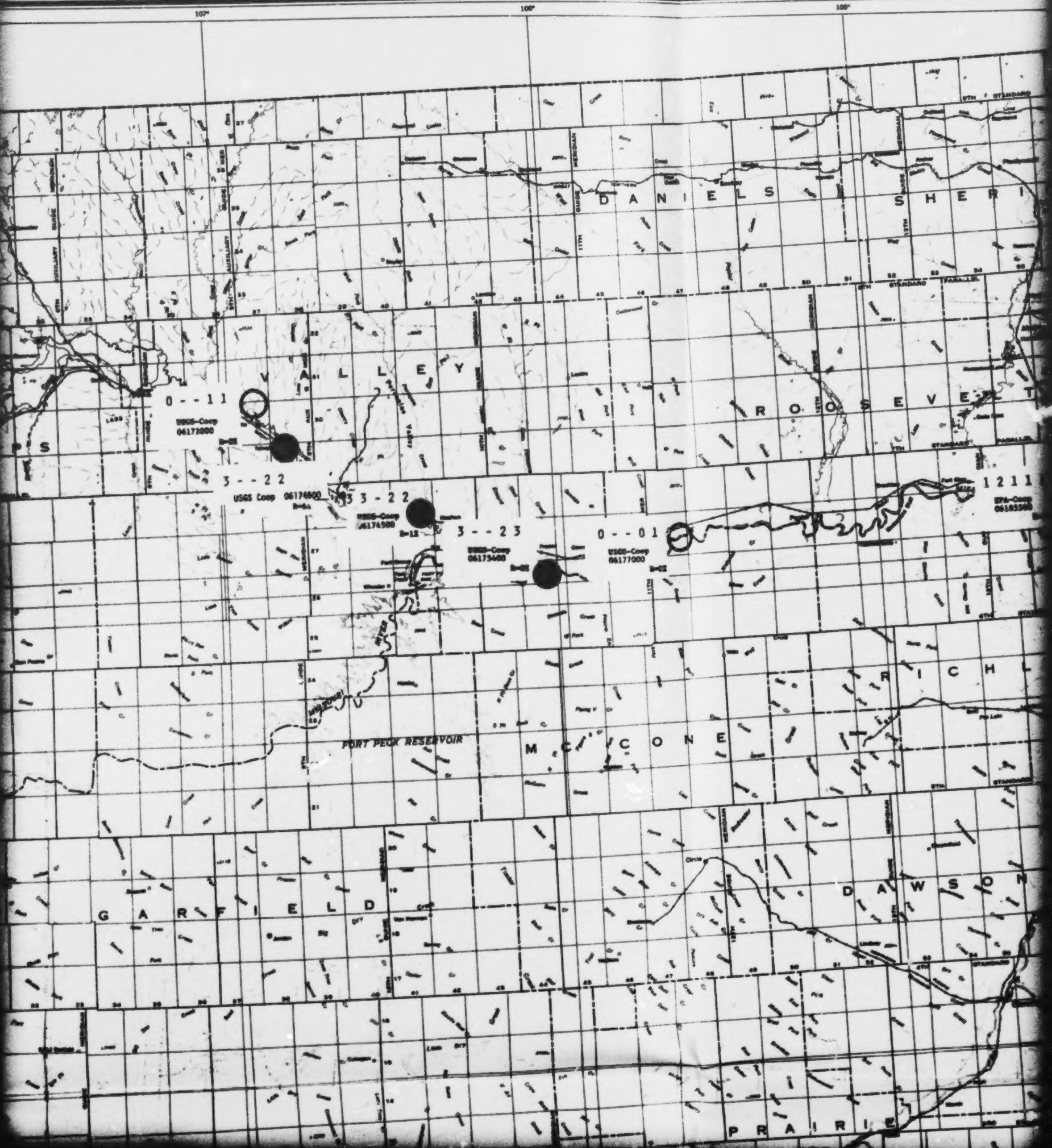


WEST
112°
112°
111°
C A N
GLACIER
TOOLE
LIBERTY
HILL
PONDERA
TETON
CHOUTEAU
CASCADE
LEWIS AND CLARK
JUDITH
Cut Bank
TIBER RESERVOIR
Prairie
GREAT FALLS
HIGHWOOD MTS
STANDARD PARALLEL
---13
USGS-Coop
06091852
B-0I
---22
USGS-Coop
06091853
B-0I
0-10
USGS-Coop 06091850
B-0I
0--10
USGS-Coop
06101500
B-0I
03221
EPA-Coop
06090800
B-3I
0--11
USGS-Coop
06080900
B-0I
3--13
USGS-Coop
B-1I
3--12
USGS-Coop 06089000
B-0I
3--13
USGS-Coop
B-0I
03001
USGS-Coop
B-0I
-2011

C

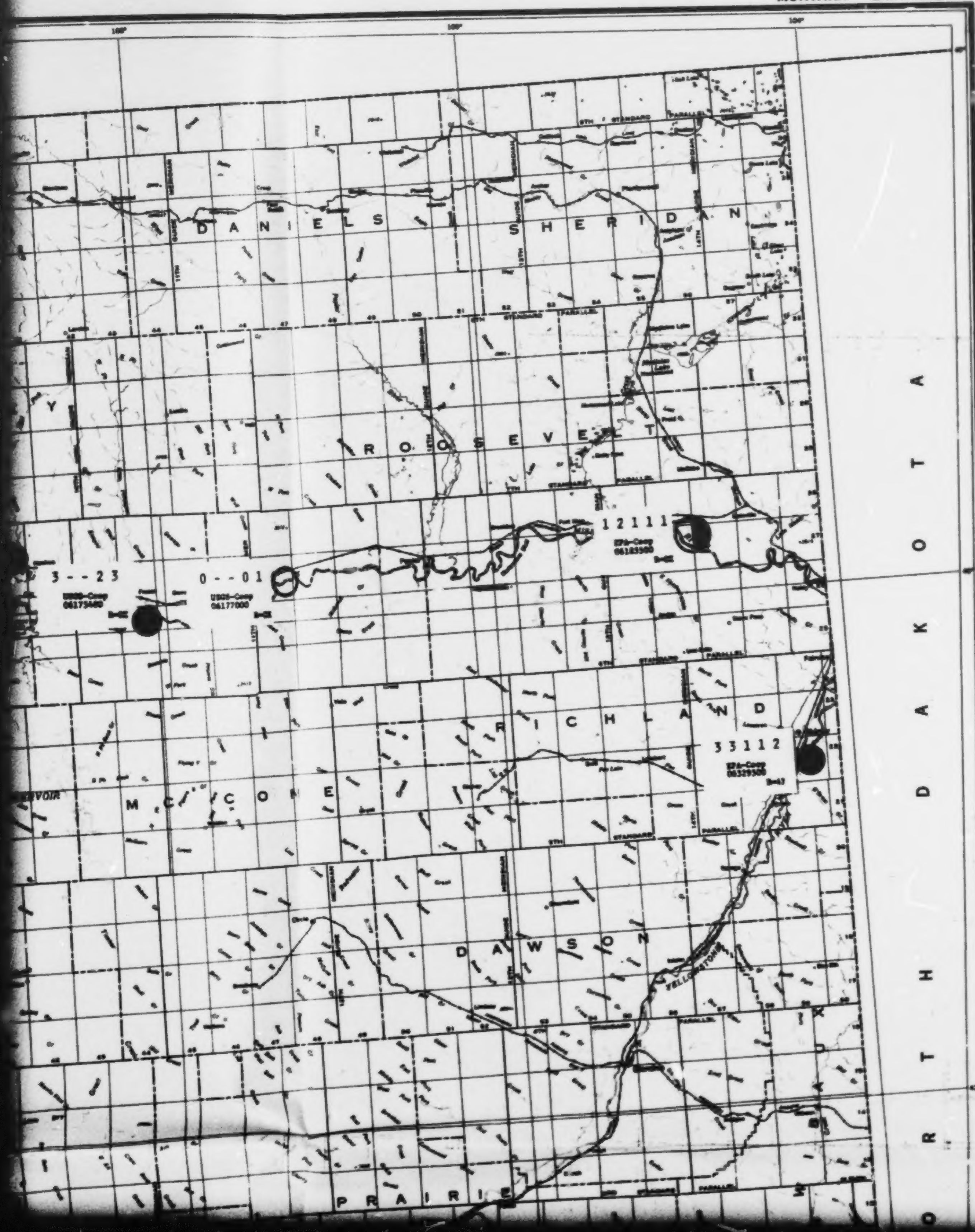

WEST HALF
N
A D A
0--11
0--11
HAVRE
BLAINE
PHILLIPS
CHOUTEAU
FERGUS
PETROLEUM
FERGUS
BASIN
MOUNTAINS
STANDARD PARALLEL

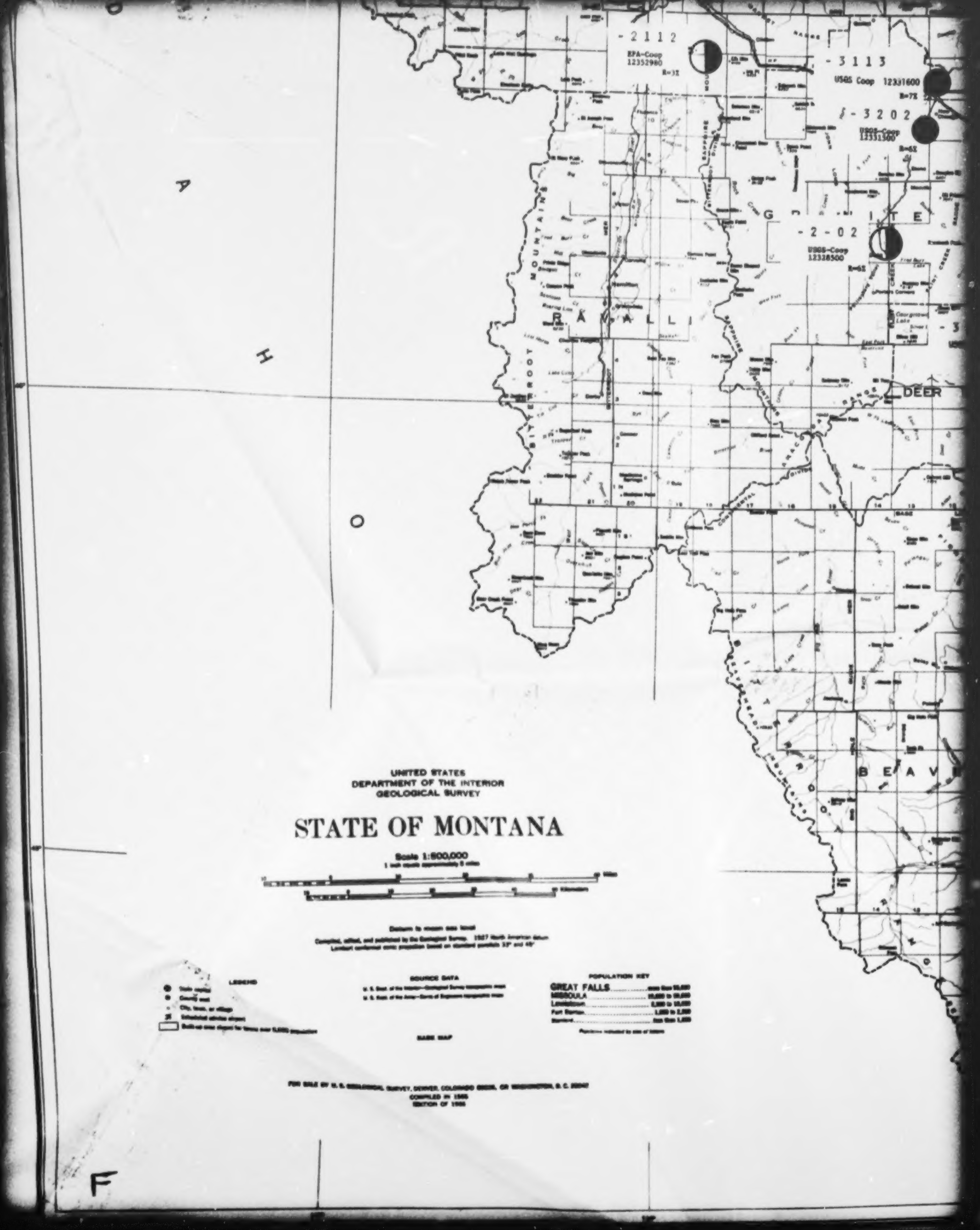
D


107°
106°
105°
DANIELS
SHERI
VALLEY
ROOSEVE T
PS
0--11
USGS-Coop
06172000
3--22
USGS Coop 06174000
33-22
USGS-Coop
06174500
B-1Z
3--23
USGS-Coop
06175400
0--01
USGS-Coop
06177000
1211
EPA-Coop
06185500
FORT PECK RESERVOIR
McCONE
RICHL
GARFIELD
DAWSON
PRAIRIE
Circle

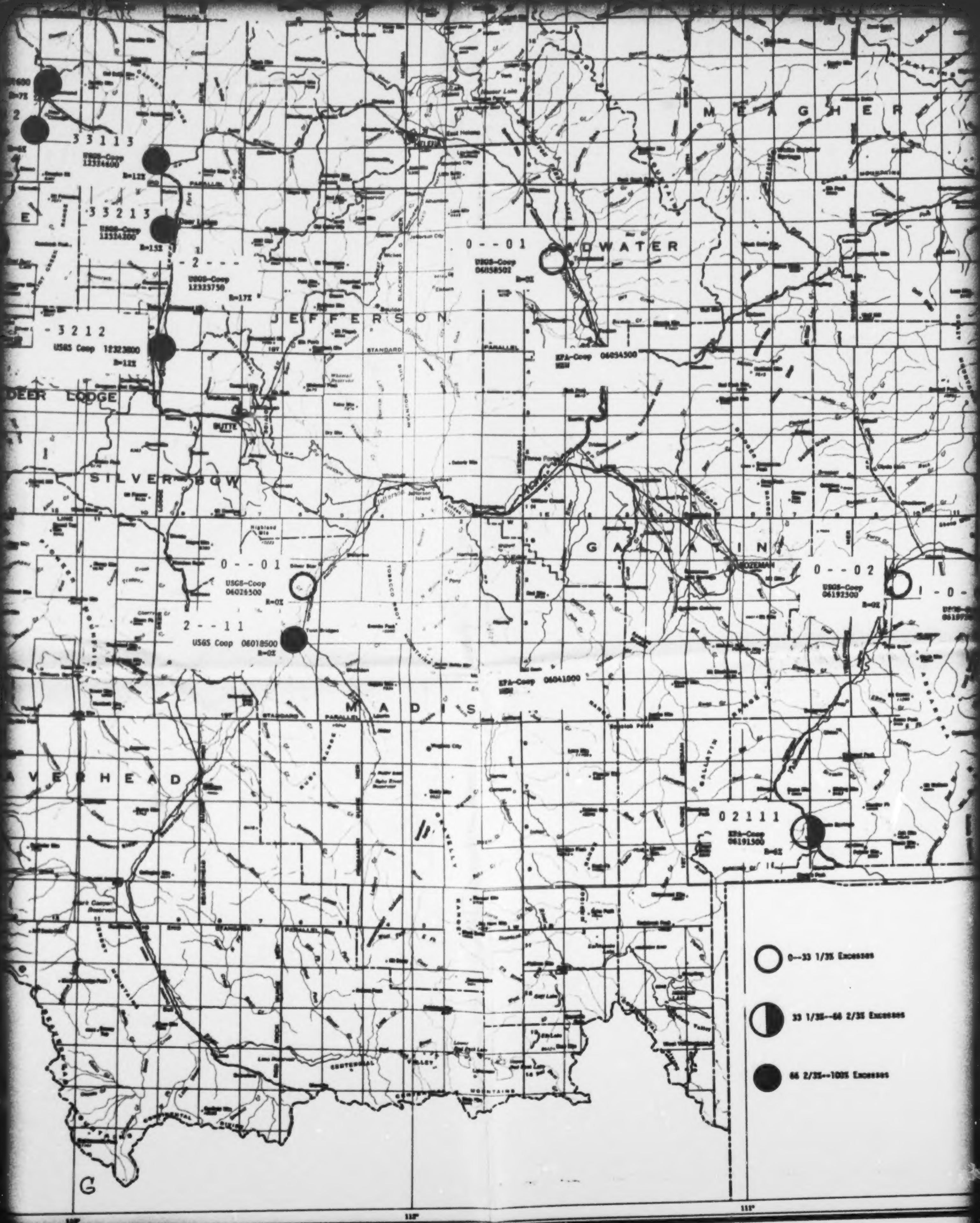
E

MONTANA EAST HALF

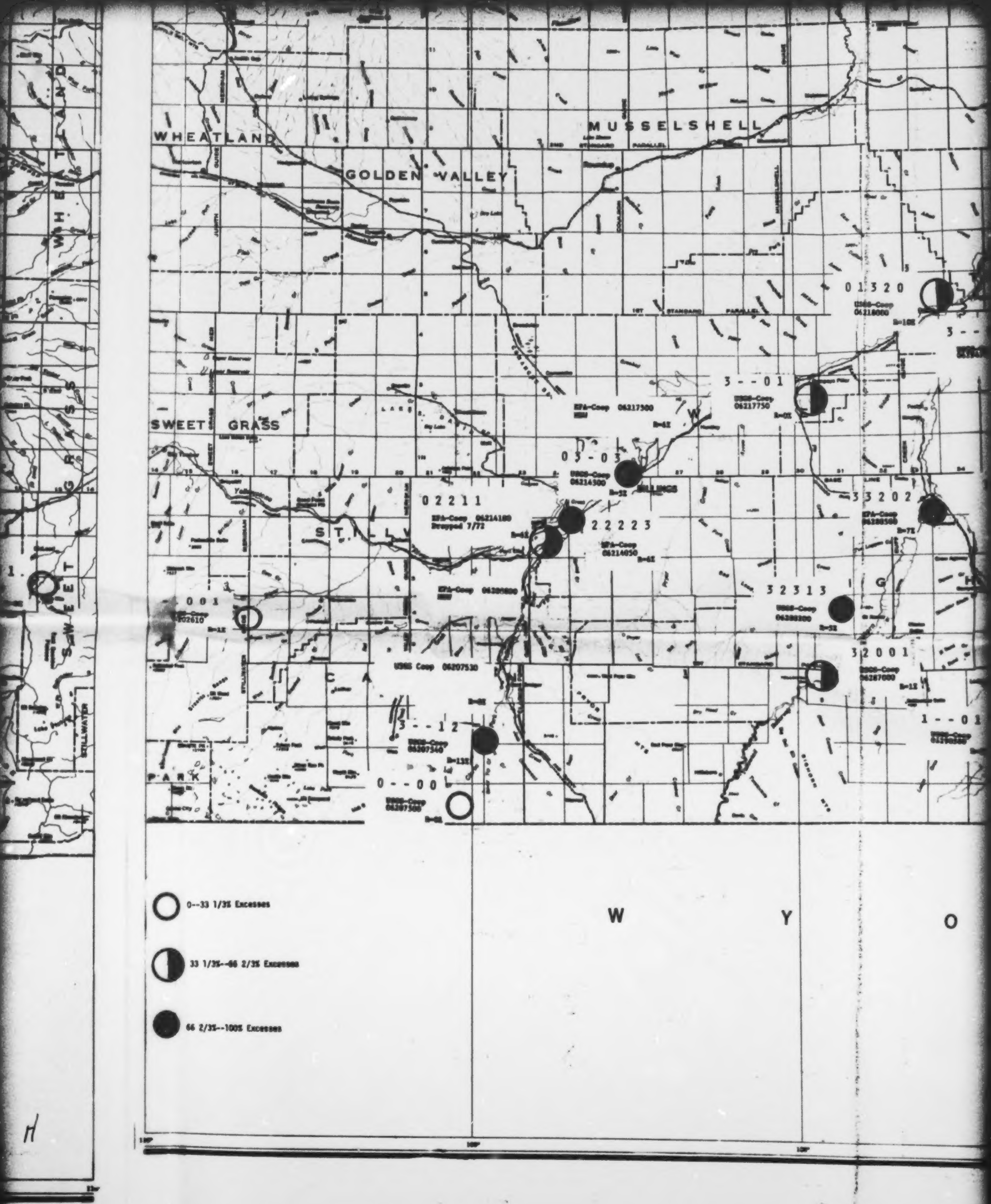

DANIELS
SHERIDAN
ROOSEVELT
RICHLAND
McCONE
DAWSON
PRAIRIE
NORTH DAKOTA
YELLOWSTONE
RESERVOIR
STANDARD PARALLEL
3--23
USGS-Coop
06175460
0--01
USGS-Coop
06177000
12111
EPA-Coop
06185500
33112
EPA-Coop
06329500


-2112
EPA-Coop
12352980
R=3%
-3113
USGS Coop 12331600
R=7%
-3202
USGS-Coop
12331500
R=6%
-2-02
USGS-Coop
12328500
R=6%
G R A N I T E
R A V A L L I
DEER
B E A V
I D A H O
BITTERROOT MOUNTAINS
SAPPHIRE
CONTINENTAL DIVIDE
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
STATE OF MONTANA
Scale 1:500,000
Datum is mean sea level
LEGEND
SOURCE DATA
POPULATION KEY
GREAT FALLS
MISSOULA
Lewistown
Fort Benton
BASE MAP

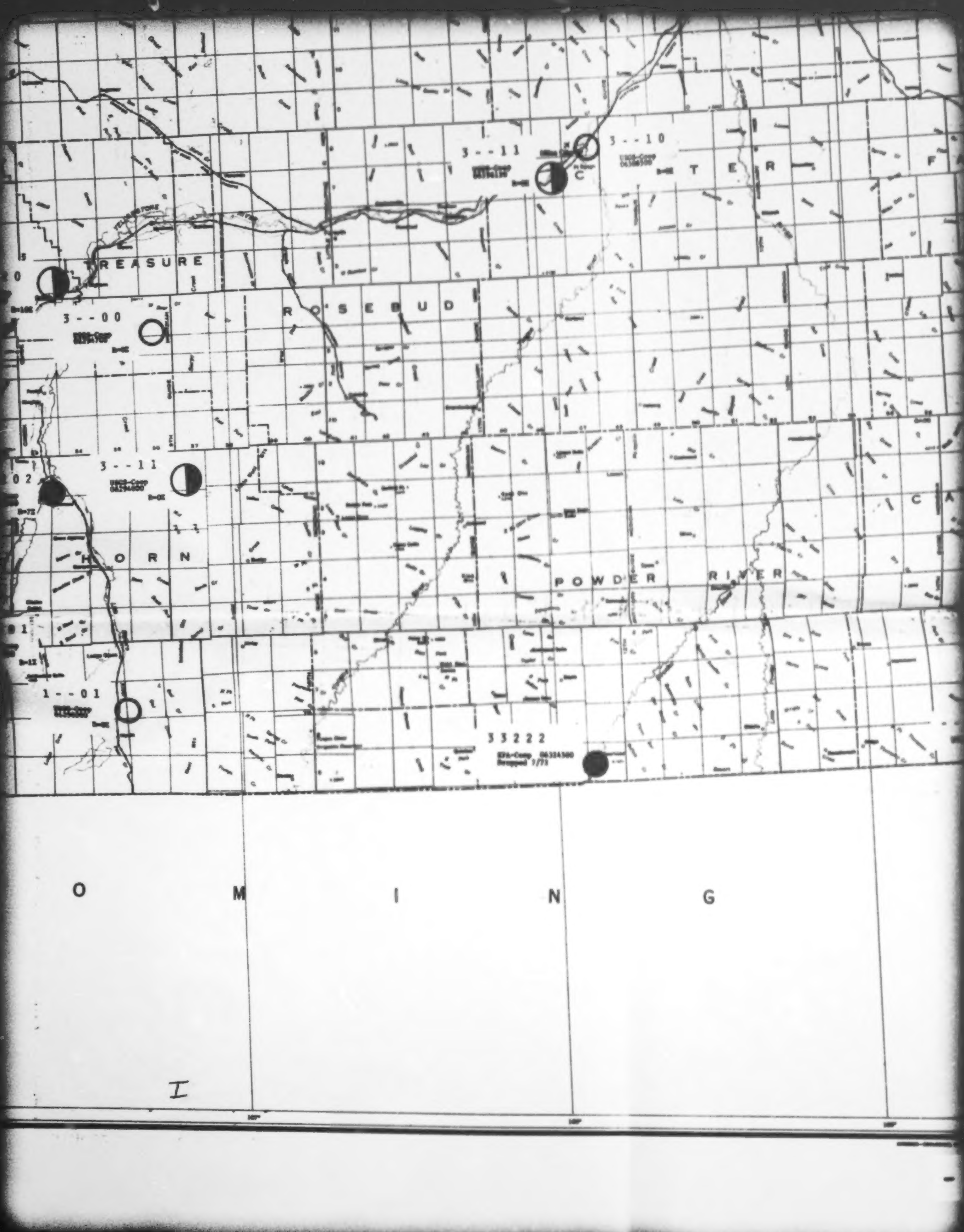
F

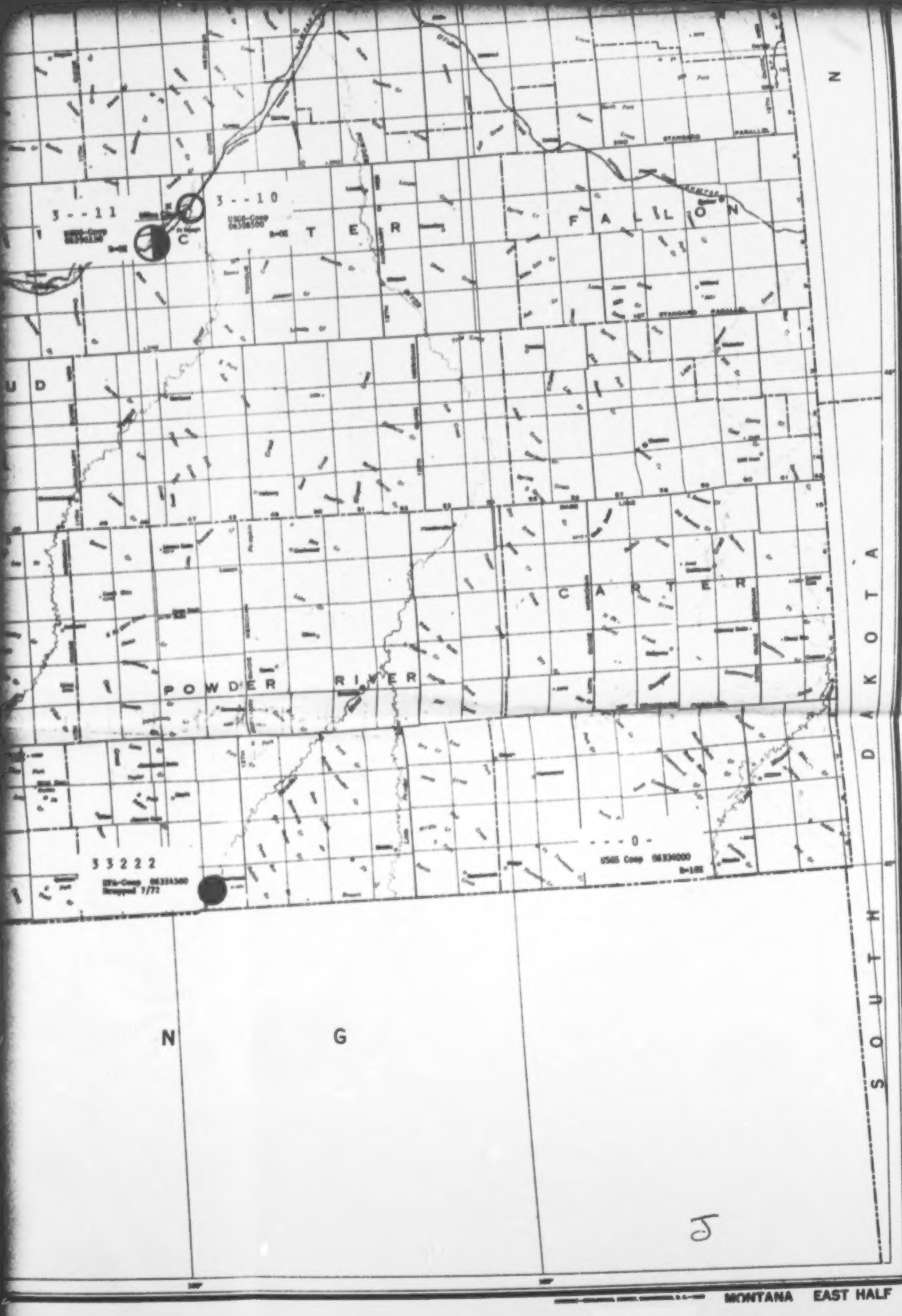


M E A G H E R
0 - - 0 1
USGS-Coop
06058502
B=0%
D W A T E R
EPA-Coop 06054500
J E F F E R S O N
3 3 1 1 3
USGS-Coop
12334600
B=12%
3 3 2 1 3
USGS-Coop
12334200
B=15%
Deer Lodge
- 2 - - -
USGS-Coop
12323750
B=17%
- 3 2 1 2
USGS Coop 12323800
B=12%
B=7%
2
B=0%
E
DEER LODGE
BUTTE
SILVER BOW
G A L L A T I N
BOZEMAN
0 - - 0 1
USGS-Coop
06026500
B=0%
2 - - 1 1
USGS Coop 06018500
B=0%
EPA-Coop 06041000
0 - - 0 2
USGS-Coop
06192500
B=0%
M A D I S
A V E R H E A D
0 2 1 1 1
EPA-Coop
06191500
B=0%
STANDARD
PARALLEL
CENTENNIAL
VALLEY
0--33 1/3% Excesses
33 1/3%--66 2/3% Excesses
66 2/3%--100% Excesses
112°
111°
G


WHEATLAND
MUSSELSHELL
GOLDEN VALLEY
SWEET GRASS
STILLWATER
PARK
CARBON
BIG HORN
YELLOWSTONE
WHEATLAND
SWEET GRASS
BILLINGS
1ST STANDARD PARALLEL
2ND STANDARD PARALLEL
BASE LINE
0 1 3 2 0
USGS-Coop
06218000
B=10%
3 - - 0 1
USGS-Coop
06217750
B=0%
EPA-Coop 06217500
B=6%
0 3 - 0 3
USGS-Coop
06214500
B=5%
0 2 2 1 1
EPA-Coop 06214180
Dropped 7/72
B=6%
2 2 2 2 3
EPA-Coop
06214050
B=6%
EPA-Coop 06207800
3 3 2 0 2
EPA-Coop
06288500
B=7%
3 2 3 1 3
USGS-Coop
06288200
B=5%
3 2 0 0 1
USGS-Coop
06287000
B=1%
1 - - 0 1
USGS Coop 06207530
B=0%
3 - - 1 2
USGS-Coop
06207540
B=13%
0 - - 0 0
USGS-Coop
06207500
B=0%
- 0 0 1
B=1%
W
Y
O
0--33 1/3% Excesses
33 1/3%--66 2/3% Excesses
66 2/3%--100% Excesses
WEST HALF

H


3--11
3--10
C
T E R
F
TREASURE
3--00
R O S E B U D
3--11
202
H O R N
C A
P O W D E R R I V E R
01
1--01
33222
EPA-Coop 06324500
Dropped 7/72
O M I N G
I


N
3 - - 11
3 - - 10
USGS-Coop
C T E R
F A L L O N
U D
C A R T E R
POWDER RIVER
3 3 2 2 2
USGS-Coop
Stopped 7/72
- - - 0 -
USGS Coop
N
G
J
S O U T H D A K O T A

MONTANA EAST HALF

C. North Dakota

1. State of North Dakota Water Quality Stations

a. No data were available for rating either the Hazardous Materials or Nutrient groups.

b. In-depth data were available for the ORB group, and of the 26 rateable State stations, only 4 had less than 10% excesses.

c. No turbidity data were available in the Field group.

d. In the TDS group, only 3 of the 26 rateable stations had less than 25% excesses.

e. Rejects for North Dakota State stations were mostly for total coli; a small number of BOD, pH, TDS, with one temperature reject,was also noted.

f. Reject percentages were low throughout the North Dakota State stations, ranging from 1 to 3%, except for one station (Red River at Fargo), noting 7% rejects.

g. The weighted value percentages were generally high for the North Dakota State stations.

h. Sixteen of the 26 rateable State North Dakota stations were in the 33-1/3 to 66-2/3% weighted value percentage category, nine were in the 66-2/3 to 100% category; and only one had a weighted value percentage between 0 and 33-1/3%.

2. USGS Cooperative Stations

a. Out of 42 rateable stations in the Hazardous Materials group, 12 had excesses of 25% or more.

b. Only 3 of the 37 USGS Coop stations under review collected any data in the ORB group.

c. Three out of 32 stations rateable in the Nutrient group had less than 25% excesses.

d. Seven of eight EPA-Coop stations collected sufficient data in each category, including the ORB group.

e. Only 3 rateable USGS monitoring stations were noted on the Missouri River.

f. Rejects for both the USGS and EPA Coop stations were generally found in the Hazardous Materials group and were mostly zinc, copper, and ammonia, with lesser rejects for manganese, silver, and one excess of lead (Missouri River at Garrison) noted. In other groups, a few TDS and turbidity rejects were also noted.

g. EPA-Coop stations noted rejects for DO, BOD, and fecal coli. for the Red River of the North at Fargo, and rejects for fecal coli. for the James River at Oakes.

h. Rejects in the EPA group ranged from 1 to 3%; however, reject percentages in the USGS Coop group ranged from 1 to 22%, with particularly high reject percentages noted at Big Coulee at Grames Island (17%). Mission Bay of Devil's Lake (16%). East Bay of Devil's Lake (22%), East Devil's Lake near Hamar (21%), Eastern Stump Lake near Lacota (20%), and Western Stump Lake (18%).

i. Thirty-two of 45 stations were in the 66-2/3 to 100% weighted value percentage category. Eleven stations were in the 33-1/3 to 66-2/3% category, and only two were in the 0 to 33-1/3% range.

3. Overview

a. Future surveys will incorporate Minnesota stations in the review.

b. All stations on the James River, from the headwaters through South Dakota to its confluence with the Missouri, noted a weighted value percentage of 66-2/3% or greater.

NORTH DAKOTA

4. STATION DESCRIPTIONS

NORTH DAKOTA

NUMBER	STATE STATIONS
380001	Bois De Sioux River at Wahpeton.
380002	Red River at Fargo.
380003	" " " Grand Fork.
380004	" " " Drayton.
380005	" " " Pembina.
380006	Wild Rice River at Cayuga.
380007	Sheyenne River at Lisbon.
380008	" " " Valley City.
380009	" " " Copperstown.
380010	" " " Warwick.
380011	Pembina River at Walhalla.
380012	James River at La Moure.
380013	James River at Jamestown.
380014	James River at Edmunds.
380015	Pipestem River at Buchanan.
380016	Maple River at Ellendale.
380017	Elm River at Ellendale.
380018	Souris River at Towner.
380019	Souris River at Westhope.
380020	Souris River at Minot.
380021	Delacs River at Foxholm.
380022	Little Missouri River at Medora.
380023	Heart River at Dickinson.
380024	Heart River at Mandan.
380025	Cannon Ball River at Regent.
380026	Square Butte Creek at Center.

NUMBER	USGS STATIONS
05051010	Red River of the North below WAH.
05051600	Wild Rice River nr Rutland.
05051700	Wild Rice River nr Cayuga.
05053000	Wild Rice River nr Abercrombie.
05054000	Red River of the North at Fargo.
05056000	Sheyenne River nr Warwick.
05056200	Edmore Coulee nr Edmore.
05056220	Sweetwater Lake at Sweetwater.
05056250	Lac Aux Mortes nr Church's Ferry.
05056260	Lake Irving nr Church's Ferry.
05056400	Big Coulee nr Church's Ferry.
05056405	Big Coulee at Grhms. I., Devil's Lake.
05056500	Devil's Lake nr Devil's Lake. No. Dak.
05056505	Narrows of Devil's Lake.
05056506	Mission Bay of Devil's Lake.
05056535	East Bay, Devil's Lake.
05056570	East Devil's Lake nr Hamar.
05056630	Eastern Stump Lake nr Lakota.
05056670	Western Stump Lake nr Lakota.
05057000	Sheyenne River nr Cooperstown.
05058700	Sheyenne River at Lisbon.
05064900	Beaver Creek nr Finley.
05071500	Red River of the North ab Red Lake at Grand.
05082500	Red River of the North at Grand.
05090000	Park River at Grafton.
05099380	Pembina River nr Vang.

NUMBER	USGS STATIONS (Cont.)
05099400	Little Pembina River nr Walhalla.
05099600	Pembina River at Walhalla.
05117500	Souris (Mouse) River ab Minot.
06330000	Missouri River nr Williston.
06332000	White Earth River at White Earth.
06332515	Bear Den Creek nr Mandaree.
06338490	Missouri River at Garrison Dam.
06341800	Painted Woods Creek nr Wilton.
06469000	Jamestown Reservoir nr Jamestown.
06470500	James River at La Moure.
06470833	Pilot Drain at Oakes.
06470880	Unnamed.

NUMBER	EPA STATIONS
05051510	Red River of the North below WAH.
05054020	Red River of the North below Fargo.
05060600	Sheyenne River nr Harwood.
05102490	Red River of the North, Pembina.
05120000	Souris River nr Verend.
05124000	Souris River nr Westho.
06342500	Missouri River at Bismarck.
06470830	James River at Oakes.

NORTH DAKOTA

5. REJECT DATA

More than ten excesse[illegible] any parameter
reported as a range (←→) with X excesses
of Y values given in parentheses.
Mn = Manganese Cu = Copper
Ag = Silver Pb = Lead Zn = Zinc
NH_3 = Ammonia NH_4 = Ammonium

REJECT LIST

NORTH DAKOTA - STATE STATIONS

Date	Storet # & Desc.	Value
Station #380001	**1/209 = 1% Rejects**	
70/05/15	31501 Tot Coli	90,000/100 ML
Station #380002	**14/212 = 7% Rejects**	
Throughout	31501 Tot Coli	30,000 ←→ 750,000/100 ML (14 of 33)
Station #380003	**3/214 = 1% Rejects**	
69/05/02	31501 Tot Coli	47,000/100 ML
69/05/02	" " "	65,000/ " "
69/08/22	" " "	40,000/ " "
Station #380004	**1/214 = 1% Rejects**	
69/08/21	31501 Tot Coli	130,000/100 ML
Station #380007	**1/222 = 1% Rejects**	
71/01/21	31501 Tot Coli	23,000/100 ML
Station #380008	**2/238 = 1% Rejects**	
70/02/19	31501 Tot Coli	21,500/100 ML
71/01/08	" " "	47,000/ " "
Station #380010	**1/180 = 1% Rejects**	
69/08/21	31501 Tot Coli	116,000/100 ML
Station #380011	**1/215 = 1% Rejects**	
70/07/23	31501 Tot Coli	25,000/100 ML
Station #380012	**1/225 = 1% Rejects**	
70/08/18	00310 BOD	80 mg/l
Station #380013	**3/229 = 1% Rejects**	
69/07/17	31501 Tot Coli	160,000/100 ML
69/12/12	" " "	67,000/ " "
70/08/14	" " "	42,000/ " "
Station #380016	**3/104 = 3% Rejects**	
70/08/19	00310 BOD	80 mg/l
71/04/14	00403 pH	9.6
71/05/16	31501 Tot Coli	78,000/100 ML

Date	Storet # & Desc.	Value
Station #380017	**1/110 = 1% Rejects**	
71/06/16	31501 Tot Coli	71,000/100 ML
Station #380018	**1/6 = 2% Rejects**	
69/10/10	31501 Tot Coli	48,000/100 ML
Station #380019	**2/219 = 1% Rejects**	
68/07/24	00403 pH	9.7
69/03/12	70295 TDS	2138 mg/l
Station #380020	**3/203 = 1% Rejects**	
69/09/10	00403 pH	10.4
69/05/23	31501 Tot Coli	55,000/100 ML
70/09/12	" " "	640,000/ " "
Station #380022	**1/190 = 1% Rejects**	
70/06/18	31501 Tot Coli	300,000/100 ML
Station #380023	**6/216 = 3% Rejects**	
70/01/14	00310 BOD	75 mg/l
70/02/05	" "	135 "
70/05/13	" "	57 "
70/01/14	31501 Tot Coli	25,000/100 ML
70/02/05	" " "	60,000/ " "
70/08/05	" " "	26,000/ " "
Station #380024	**3/220 = 1% Rejects**	
68/11/20	00010 Temp. °C.	35
70/06/18	31501 Tot Coli	400,000/100 ML
68/12/12	70295 TDS	2200 mg/l

REJECT LIST

NORTH DAKOTA - USGS COOP STATIONS

Station #05051010 1/29 = 3% Rejects

Date	Storet # & Desc.	Value
69/08/22	00610 NH_3	0.05 ug/l

Station #05051600 9/49 = 3% Rejects

71/03/18	01040 Cu	42 ug/l
71/04/09	" "	26 "
71/05/12	" "	85 "
71/05/21	" "	26 "
71/03/18	01090 Zn	160 "
71/04/08	" "	30 "
71/05/12	" "	62 "
71/05/21	" "	17 "
71/06/02	" "	20 "

Station #05051700 3/75 = 4% Rejects

70/01/27	70300 TDS	3340 mg/l
70/05/23	01040 Cu	25 ug/l
70/05/23	01090 Zn	14 "

Station #05053000 12/386 = 3% Rejects

69/10/10	01090 Zn	15 ug/l
70/05/22	" "	12 "
71/05/21	" "	23 "
71/02/09	" "	20 "
72/03/20	" "	30 "
72/02/01	70300 TDS	2840 mg/l
72/03/08	" "	2800 "
70/05/22	01040 Cu	35 ug/l
69/02/13	01055 Mn	6700 "
69/03/05	" "	8000 "
69/12/11	01056 Mn	2290 "
70/01/06	" "	1660· "

Station #05054000 6/297 = 2% Rejects

Date	Storet # & Desc.	Value
69/10/10	01040 Cu	27 ug/l
70/05/22	" "	24 "
70/05/22	01075 Ag	4 "
70/10/03	" "	18 "
71/05/20	" "	27 "
72/03/22	" "	30 "

Station #05056220 11/121 = 9% Rejects

68/10/24	01040 Cu	50 ug/l
71/05/17	" "	24 "
72/02/15	01056 Mn	1200 "
68/10/24	01090 Zn	260 "
69/10/06	" "	25 "
70/05/21	" "	17 "
70/10/03	" "	20 "
71/05/17	" "	31 "
71/08/18	" "	330 "
71/11/17	" "	70 "
72/02/15	" "	20 "

Station #05056250 5/191 = 5% Rejects

71/11/16	01056 Mn	1300 ug/l
69/10/06	01090 Zn	25 "
70/05/19	" "	13 "
70/10/04	" "	30 "
71/08/18	" "	370 "

Station #05056260 4/91 = 4% Rejects

69/10/06	01040 Cu	28 ug/l
71/05/18	01090 Zn	13 "
71/08/18	" "	400 "
71/11/16	" "	130 "

Station #05056405 16/96 = 17% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	5160 ←→ 12,400 mg/l (10 of 11)
71/05/18	01040 Cu	30 ug/l
69/10/05	01090 Zn	12 "
71/05/18	" "	21 "
71/08/17	" "	120 "
71/11/17	" "	90 "
72/02/16	" "	90 "

Station #05064900 6/297 = 2% Rejects

70/04/09	00070 Turb	50 JTU
70/07/07	01090 Zn	20 ug/l
70/11/04	" "	20 "
71/09/14	" "	70 "
72/03/22	" "	30 "
72/03/01	71845 NH_4	0.53 mg/l

Station #05056506 16/97 = 16% Rejects

68/05/17	70300 TDS	62,600 mg/l
68/10/24	" "	32,200 "
69/05/22	" "	21,100 "
69/10/05	" "	57,400 "
70/05/20	" "	11,800 "
70/10/05	" "	7,560 "
71/05/18	" "	5,720 "
71/08/17	" "	5,740 "
71/11/17	" "	6,260 "
72/02/16	" "	6,520 "
69/10/05	01040 Cu	83 ug/l
69/10/05	01090 Zn	41 "
70/10/05	" "	20 "
71/05/18	" "	22 "
71/08/17	" "	620 "
72/02/16	" "	50 "

REJECT LIST

NORTH DAKOTA - USGS COOP STATIONS (Cont.)

Station #05056535 11/49 = 22% Rejects

Date	Storet # & Desc.	Value
70/10/05	70300 TDS	7670 mg/l
71/05/18	" "	5700 "
71/08/18	" "	5500 "
71/11/17	" "	6300 "
72/02/16	" "	6600 "
71/05/18	01040 Cu	45 ug/l
70/10/05	01090 Zn	20 "
71/05/18	" "	23 "
71/08/18	" "	270 "
71/11/17	" "	50 "
72/02/16	" "	30 "

Station #05056570 24/113 = 21% Rejects

Throughout	70300 TDS	36,000 ⟷ 64,000 mg/l (10 of 25)
68/10/24	01040 Cu	100 ug/l
69/10/07	" "	73 "
70/05/19	" "	720 "
70/10/06	" "	100 "
71/05/19	" "	85 "
68.10/24	01090 Zn	300 "
69/05/22	" "	140 "
69/10/07	" "	62 "
70/05/19	" "	920 "
70/10/06	" "	200 "
71/05/19	" "	69 "
71/08/19	" "	180 "
71/11/17	" "	110 "
72/02/16	" "	50 "

Station #05056630 22/110 = 20% Rejects

68/05/17	70300 TDS	68,700 mg/l
68/10/24	" "	103,000 "
69/05/21	" "	69,700 "
69/10/08	" "	107,000 "

Station #05056630 (Cont.)

Date	Storet # & Desc.	Value
70/05/19	70300 TDS	81,600 mg/l
70/10/05	" "	112,000 "
71/05/19	" "	68,600 "
71/08/19	" "	91,100 "
71/11/18	" "	71,600 "
68/10/24	01040 Cu	150 ug/l
69/10/08	" "	95 "
70/05/19	" "	360 "
70/10/05	" "	170 "
71/05/19	" "	140 "
68/10/24	01090 Zn	250 "
69/05/21	" "	170 "
69/10/08	" "	97 "
70/05/19	" "	680 "
70/10/05	" "	80 "
71/05/19	" "	64 "
71/08/19	" "	250 "
71/11/18	" "	50 "

Station #05056670 16/89 = 18% Rejects

68/05/17	70300 TDS	5920 mg/l
68/10/24	" "	8190 "
69/05/21	" "	4690 "
69/10/08	" "	6980 "
70/05/19	" "	5870 "
71/08/19	" "	6200 "
71/11/18	" "	7380 "
72/02/17	" "	17,800 "
68/10/24	01040 Cu	30 ug/l
69/10/08	" "	27 "
70/05/19	" "	160 "
68/10/24	01090 Zn	190 "
70/05/19	" "	270 "
71/08/19	" "	130 "
71/11/18	" "	30 "
72/02/17	" "	60 "

Station #05057000 9/404 = 2% Rejects

Date	Storet # & Desc.	Value
69/01/31	01055 Mn	3400 ug/l
69/02/25	" "	8600 "
69/03/26	" "	5500 "
71/01/05	01056 "	2100 "
69/10/04	01090 Zn	33 "
70/10/05	" "	20 "
71/05/19	" "	18 "
71/12/07	" "	20 "
72/03/27	" "	20 "

Station #05058700 5/330 = 2% Rejects

69/10/10	01040 Cu	29 ug/l
69/10/10	01090 Zn	20 "
70/05/23	" "	18 "
71/12/08	" "	20 "
72/04/03	" "	20 "

Station #05071500 10/83 = 12% Rejects

Date	Storet # & Desc.	Value
69/11/12	00610 NH_3	.06 mg/l
69/12/09	" "	.30 "
70/01/05	" "	.70 "
70/02/09	" "	.90 "
70/03/04	" "	1.50 "
70/04/03	" "	.40 "
70/05/08	" "	.08 "
70/06/04	" "	.06 "
70/05/08	00070 Turb	70 JTU
70/06/04	" "	310 "

REJECT LIST

NORTH DAKOTA - USGS COOP STATIONS (Cont.)

Station #06330000 8/79 = 10% Rejects

Date	Storet # & Desc.	Value
69/07/30	00070 Turb	110 JTU
69/11/18	" "	95 "
70/03/12	" "	55 "
70/04/08	" "	140 "
70/06/03	" "	200 "
69/08/19	00610 NH_3	.05 mg/l
69/09/25	" "	19.00 "
70/02/11	" "	.07 "

Station #06332515 4/397 = 1% Rejects

70/04/14	00070 Turb	100 JTU
70/05/14	" "	140 "
70/06/17	" "	600 "
70/07/20	" "	60 "

Station #06338490 4/98 = 4% Rejects

71/11/26	01051 Pb	760.0 ug/l
71/10/20	01090 Zn	40.0 "
71/11/26	" "	60.0 "
71/12/23	71845 NH_4	0.17 mg/l

Station #06341800 16/159 = 10% Rejects

72/01/24	00070 Turb	70 JTU
71/11/26	01051 Pb	760 ug/l
72/01/24	01056 Mn	1200 "
71/03/22	01090 Zn	30 "
71/04/30	" "	680 "
71/05/17	" "	19 "
71/05/28	" "	100 "
71/09/20	" "	30 "
71/11/26	" "	40 "
71/12/22	" "	20 "
72/01/24	" "	20 "
72/04/19	" "	40 "
72/05/24	" "	20 "
72/06/23	" "	20 "
72/07/25	" "	30 "
71/12/22	71845 NH_4	0.17 mg/l

Station #06469000 17/184 = 9% Rejects

Date	Storet # & Desc.	Value
68/10/22	01040 Cu	60 ug/l
68/10/10	" "	30 "
71/05/20	" "	27 "
68/01/15	01055 Mn	1500 ug/l
68/04/18	" "	1300 "
68/04/29	" "	1200 "
68/06/24	" "	1400 "
68/07/22	" "	1300 "
68/10/22	" "	1700 "
69/01/20	" "	1500 "
69/07/21	" "	1190 "
70/05/18	01056 "	1040 "
70/08/18	" "	2000 "
70/10/06	" "	1600 "
68/10/22	01090 Zn	160 ug/l
71/10/27	" "	20 "
72/06/27	" "	60 "

NORTH DAKOTA - EPA COOP STATIONS

Station #05054020 6/365 = 2% Rejects

Date	Storet # & Desc.	Value
69/10/16	00300 D.O.	2.3 mg/l
70/10/03	00310 BOD	23 mg/l
70/12/11	" "	34 "
70/10/03	31616 Fecal Coli	24,000/100 ML
71/03/31	" " "	16,000/ " "
71/09/23	" " "	6,400/ " "

Station #05060000 2/352 = 1% Rejects

69/07/15	00070 Turb	145 JTU
70/05/07	" "	85 "

Station #05102490 5/184 = 3% Rejects

69/07/15	00070 Turb	82 JTU
69/08/20	" "	57 "
69/09/20	" "	57 "
70/05/06	" "	60 "
70/06/05	" "	140 "

Station #05120000 1/475 = 1% Rejects

70/05/11	00070 Turb	90 JTU

Station #06342500 1/100 = 1% Rejects

69/06/23	00010 Temp.	64

Station #06470830 1/326 = 1% Rejects

71/06/29	31616 Fecal Coli	4600/100 ML

COMBINED STATION REJECTS LIST

NORTH DAKOTA

Stations	Total Rejects
No. Dak. #380007	1/222
USGS Coop. #05058700	5/330
	6/552 = 1%
No. Dak. #380009	0/ 82
USGS Coop. #05057000	9/404
	9/486 = 2%
No. Dak. #380011	1/215
USGS Coop. #05099400	0/114
	1/329 = 1%
No. Dak. #380012	1/225
USGS Coop. #06470500	0/155
	1/380 = 1%
No. Dak. #880010	1/180
USGS Coop. #05056000	0/402
	1/582 = 1%
No. Dak. #380019	2/219
EPA Coop. #05124000	0/254
	2/463 = 1%
USGS Coop. #05051010	1/ 29
EPA Coop. #05051510	0/349
	1/378 = 1%

NORTH DAKOTA

6. DATA REDUCTION FORMS

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NORTH DAKOTA STATE STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III ORB WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING Rated Weight	Max Weight	%
380001	7/68-6/71	7	35	20	0	0	-	27	104	26	10	70	15	0	0	-	2 - 3 2 -	13	18	74
380002	7/68-6/71	4	35	11	0	0	-	60	105	58	8	72	12	0	0	-	2 - 3 2 -	13	18	74
380003	7/68-6/71	18	36	50	0	0	-	20	106	18	9	72	12	0	0	-	3 - 2 2 -	11	18	63
380004	7/68-6/71	6	36	17	0	0	-	20	106	18	8	72	12	0	0	-	2 - 2 2 -	10	18	55
380005	7/68-6/71	12	36	33	0	0	-	18	106	16	7	72	11	0	0	-	3 - 2 2 -	11	18	63
380006	7/68-4/71	6	6	100	0	0	-	1	18	6	1	11	9	0	0	-	- - 1 1 -	4	15	27
380007	7/68-6/71	30	37	81	0	0	-	28	111	25	9	74	12	0	0	-	3 - 3 2 -	14	18	77
380008	11/68-6/71	21	38	55	0	0	-	26	115	23	7	75	9	0	0	-	3 - 2 1 -	10	18	53
380009	6/68-4/71	12	14	86	0	0	-	4	40	10	2	28	7	0	0	-	3 - 1 1 -	7	18	38
380010	11/68-6/71	21	30	70	0	0	-	10	90	11	13	60	22	0	0	-	3 - 2 2 -	11	18	63
380011	7/68-6/71	26	36	72	0	0	-	13	107	12	4	72	6	0	0	-	3 - 2 1 -	10	18	55
380012	11/67-6/71	27	37	73	0	0	-	31	114	27	17	74	23	0	0	-	3 - 3 2 -	14	18	77

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
380013	11/67-6/71	27	38	71	0	0	-	36	116	31	6	75	8	0	0		3 - 3 1 -	15	18	86
380014	6/68-4/71	8	12	67	0	0	-	6	36	17	7	24	29	0	0	-	3 - 2 3 -	2	18	66
380015	6/68-4/71	10	12	83	0	0	-	9	36	25	3	24	12	0	0	-	3 - 3 2 -	15	18	86
380016	11/71-6/71	15	17	88	0	0	-	18	53	34	13	33	40	0	0	-	3 - 3 3 -	15	18	86
380017	11/67-6/71	11	18	61	0	0	-	12	57	21	13	35	37	0	0	-	3 - 2 3 -	12	18	66
380018	6/68-6/71	9	11	82	0	0	-	8	33	24	2	21	11	0	0	-	3 - 2 2 -	11	18	63
380019	6/68-6/71	30	36	83	0	0	-	25	111	23	8	75	11	0	0	-	3 - 2 2 -	11	18	63
380020	5/68-6/71	29	34	85	0	0	-	35	101	35	7	68	11	0	0	-	3 - 3 2 -	4	18	77
380021	5/68-4/71	10	10	100	0	0	-	9	29	31	1	20	5	0	0	-	3 - 3 1 -	14	18	77
380022	6/68-6/71	26	32	81	0	0	-	19	95	20	2	63	3	0	0	-	3 - 2 1 -	11	18	63
380023	6/68-6/71	28	36	78	0	0	-	17	108	16	5	72	7	0	0	-	3 - 2 1 -	11	18	63
380024	6/68-6/71	31	36	86	0	0	-	29	110	26	9	74	12	0	0	-	3 - 3 2 -	8	15	54

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
380025	6/68-5/71	13	14	93	0	0	-	2	42	5	3	28	11	0	0	-	3 - 1 2 -	8	15	54
380026	5/68-4/71	12	13	92	0	0	-	3	41	7	2	28	7	0	0	-	3 - 1 1 -	8	15	54

NORTH DAKOTA USGS/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(-)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
05051010	7/69-6/70	0	3	0	1	11	9	0	3	0	5	12	42	0	0	0	- 1 - 3 -	8	18	44
05051600	3/71-6/71	5	6	83	13	22	59	0	1	0	0	15	0	0	5	-	3 3 - 0 -	18	21	86
05051700	3/68-5/70	12	14	86	5	16	31	-	-	-	1	27	4	10	18	56	3 3 - 1 3	25	27	93
05053000	3/68-7/72	92	105	88	18	59	31	-	-	-	8	138	6	37	84	44	3 3 - 1 3	25	27	93
05054000	1/68-8/71	0	107	0	2	41	5	-	-	-	8	153	5	10	96	10	0 1 - 1 1	8	27	30
05056000	2/68-8/72	51	95	54	8	55	15	-	-	-	2	121	2	34	51	67	3 2 - 1 3	29	36	[illegible]
05056220	5/68-2/72	7	10	70	12	73	16	-	-	-	1	20	5	12	18	67	3 2 - 1 3	14	27	52
05056250	5/68-11/72	6	9	67	10	54	19	-	-	-	1	18	6	8	10	80	3 2 - 1 3	20	27	74
05056200	5/68-11/72	5	9	56	5	55	9	-	-	-	1	17	6	9	10	90	3 1 - 1 3	20	27	74
05056400	3/68-8/72	26	44	59	9	57	16	-	-	-	7	52	9	39	67	58	3 2 - 1 3	20	27	74
[illegible]	5/69-11/71	5	6	83	0	4	0	-	-	-	1	12	8	0	7	0	3 - - 1 -	4	6	66
05056500	5/68-2/72	10	10	100	6	69	9	-	-	-	3	20	15	12	18	67	3 1 - 2 3	16	27	59

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REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
05056505	5/68-2/72	10	10	100	7	49	14	-	-	-	3	19	16	9	18	50	3 2 - 2 3	21	27	78
05056306	5/68-2/72	10	10	100	9	56	16	-	-	-	3	20	16	9	11	82	3 2 - 2 3	21	27	78
05056535	10/70-2/72	5	5	100	9	44	-	-	-	-	-	-	-	-	-	-	3 3 - - -	x	x	
05056570	5/68-2/72	10	10	100	24	73	20	-	-	-	5	20	25	6	10	60	3 2 - 3 3	22	27	81
05057000	4/68-7/72	91	108	84	16	68	24	-	-	-	4	152	3	42	77	55	3 2 - 1 3	23	24	96
05058700	1/68-7/72	92	96	65	15	56	27	-	-	-	3	125	2	27	53	51	3 3 - 1 3	18	24	75
05064900	3/68-6/72	24	30	80	20	68	29	8	27	30	13	104	13	40	58	69	3 3 3 2 3	22	27	81
05056630	5/68-11/71	9	9	100	23	63	37	-	-	-	2	18	11	4	10	40	- 3 - 2 3	25	27	96
05056670	5/68-2/72	8	8	100	8	56	14	-	-	-	2	16	13	6	9	67	- 2 - 2 3	35	36	97
05071500	7/69-6/70	15	24	63	8	12	67	-	-	-	4	35	11	5	12	42	3 3 - 2 3	26	27	96
05082500	1/68-1/72	0	113	0	5	73	7	-	-	-	6	160	4	41	83	49	0 1 - 1 3	12	27	44
05090000	9/69-10/70	8	10	80	0	0	0	-	-	-	0	19	0	3	10	30	3 - - 0 3	9	12	75

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
05099380	3/68-5/72	7	27	26	11	25	44	–	–	–	0	52	0	43	52	82	3 3 - 0 3	24	27	89
05099400	3/68-5/72	8	24	33	6	28	21	–	–	–	0	49	0	35	40	88	3 2 - 0 3	19	27	70
0509960	1/68-7/72	74	120	62	20	62	32	–	–	–	5	179	3	56	100	56	3 3 - 1 3	26	27	96
05117500	9/69-8/71	6	14	43	1	2	50	–	–	–	1	20	5	3	15	20	3 3 - 1 2	23	27	85
06330000	7/69-6/70	15	24	63	3	12	25	–	–	–	11	35	31	0	8	0	3 3 - 3 -	21	21	100
06332000	9/69-8/70	12	12	100	0	0	0	–	–	–	0	21	0	0	12	0	3 - - 0 0	3	12	25
06332515	1/68-7/72	40	45	89	21	91	23	5	28	18	19	146	13	15	47	32	3 2 2 2 3	27	36	75
06338490	9/71-7/72	1	17	6	4	34	12	–	–	–	0	27	0	8	20	40	1 1 - 0 3	14	27	52
06341800	4/70-7/72	21	23	91	9	54	17	1	12*	8	9	62	15	20	38	53	3 2 1 2 3	24	36	67
0646900	1/68-6/72	5	29	17	29	69	49	–	–	–	3	56	5	[illegible]	30	40	2 3 - 1 3	24	27	89
06470500	2/68-6/72	16	27	59	16	37	43	–	–	–	3	54	6	21	37	57	3 3 - 1 3	25	27	93
06470833	9/71-8/72	1	16	6	2	16	13	–	–	–		26	0	12	20	60	1 2 - 0 3	17	27	63

*DO only.

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
06470880	10/70-5/72	6	7	86	6	31	19	0	2	0	1	16	6	9	14	64	- 2 - 1 3	17	24	71

NORTH DAKOTA EPA/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s) USGS-EPA	Period of Record	I TDS WEIGHT = 1 Excesses			II HAZ. MATERIALS WEIGHT = 5 Excesses			III ORB WEIGHT = 3 Excesses			IV FIELD WEIGHT = 1 Excesses			V NUTRIENT WEIGHT = 2 Excesses			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING Rated Weight		
			Values	%		Values	%		Values	%		Values	%		Values	%			Max Weight	%
05051510	7/69-4/72	0	32	0	0	66	0	17	83	21	19	107	17	34	61	56	0 0 2 2 3	14	18	77
" " 05054020	7/69-4/72	7	33	3	3	70	4	44	92	48	19	107	17	48	63	76	1 1 3 2 3	23	36	64
" " 05060600	7/69-4/72	23	30	77	2	55	4	31	97	32	16	113	15	44	57	77	3 1 3 2 3	25	36	70
05102490	7/69-3/72	0	19	0	0	60	0	2	53	4	12	84	15	20	37	54	0 0 1 2 3	11	36	39
05120000	1/68-4/72	44	54	83	5	60	12	22	90	25	6	176	3	46	95	48	3 2 3 1 3	29	36	80
05124000	10/69-4/72	16	19	84	2	39	5	7	49	15	4	70	5	20	51	39	3 1 2 1 3	21	36	58
06342500	7/69-5/72	0	1	0	0	0	-	0	2	0	1	44	2	27	53	51	- - - 1 3	7	9	66
06470830	7/69-4/72	22	33	67	1	66	2	28	90	31	17	118	10	38	61	62	3 1 3 2 3	25	36	70

NORTH DAKOTA COMBINED STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III CRB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(-)=Not Rateable	Rated Weight	Max Weight	%
N. Dak. 380007	7/68-6/71	122			** 15			* 28			12			** 27				31		
USGS-Coop 05058700	1/68-7/72		133	92		**56	27		*111	25		199	6		**53	51	3 3 2 1 3		36	95
N. Dak. 380009	7/68-6/71	103			** 16			* 4			6			**42				23		
USGS-Coop 05057000	4/68-7/72		122	84		**68	24		*40	10		180	3		**77	55	3 2 1 1 3		36	63
N. Dak. 380010	11/68-6/71	72			** 8			* 10			5			**3[illegible]				26		
USGS-Coop 05056000	2/68-8/72		125	58		**55	15		*90	11		181	8		**51	67	3 2 2 1 3		36	73
N. Dak. 380011	7/68-6/71	34			** 6			* 13			* 4			**35				26		
USGS-Coop 05099400	3/68-5/72		60	57		**28	21		*107	12		121	3		**40	88	3 2 2 1 3		36	73
N. Dak. 380012	1/67-6/71	43			**16			* 31			20			**21				34		
USGS-Coop 06470500	2/68-6/72		74	58		**37	43		*114	27		128	17		**37	57	3 3 3 2 3		36	95
N. Dak. 380019	6/68-6/71	46			**2			32			6			**20				21		
EPA-Coop 05124000	10/69-4/72		55	83		**39	5		160	20		65	9		**51	39	3 1 2 1 3		36	58

*N.D. only
**USGS Coop Only

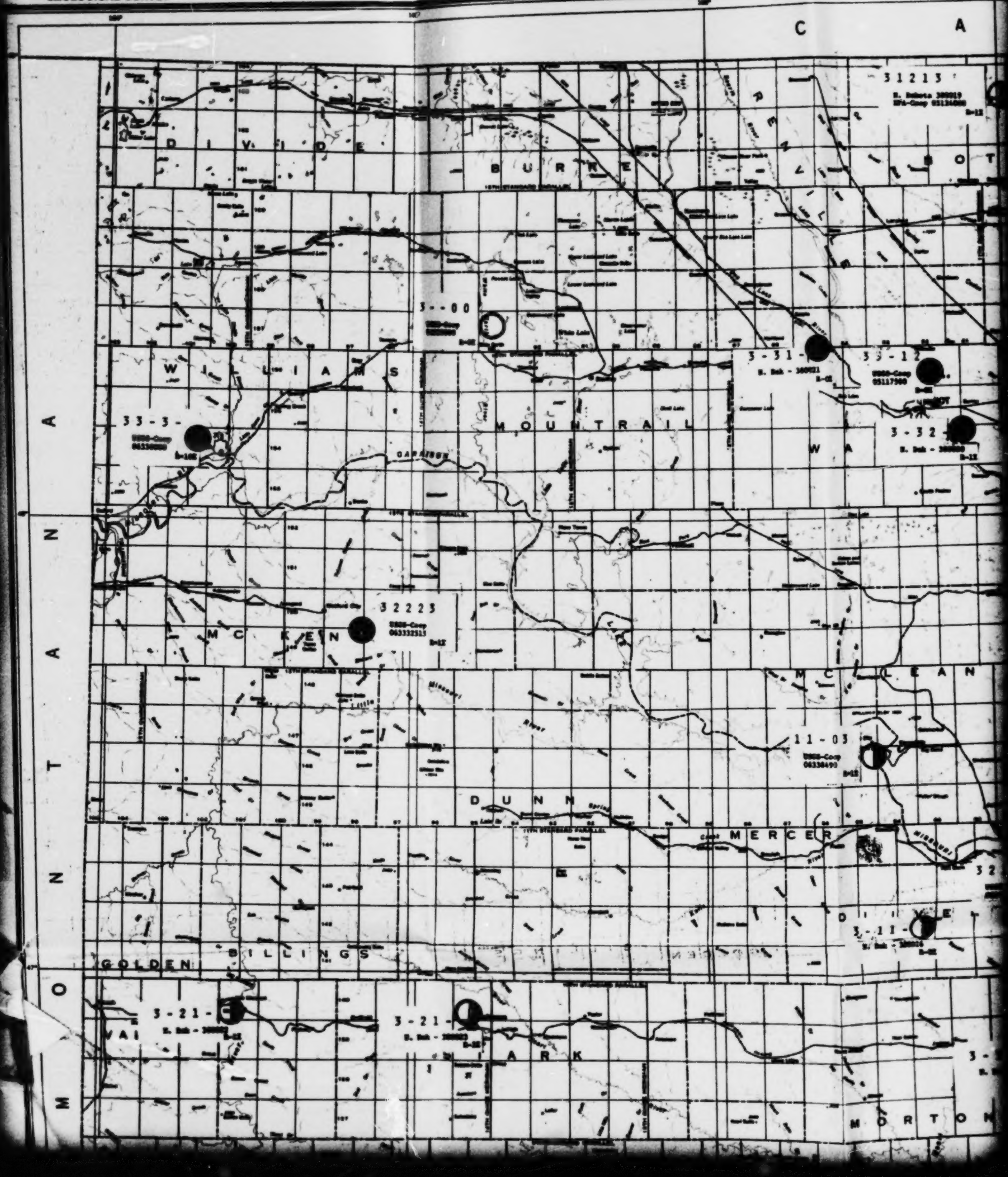
REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

		I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
Station Number(s)	Period of Record	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
EPA 05051510	7/69-4/72	0			1			17			24			34				19		
USGS-Coop 05051010	7/69-6/70		35	0		77	1		86	20		119	21		61	56	0 1 2 2 3		36	52

A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY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3-32-
33-3-
GARRISON
32223
MC KEN
MC LEAN
Missouri
River
11-03
DUNN
MERCER
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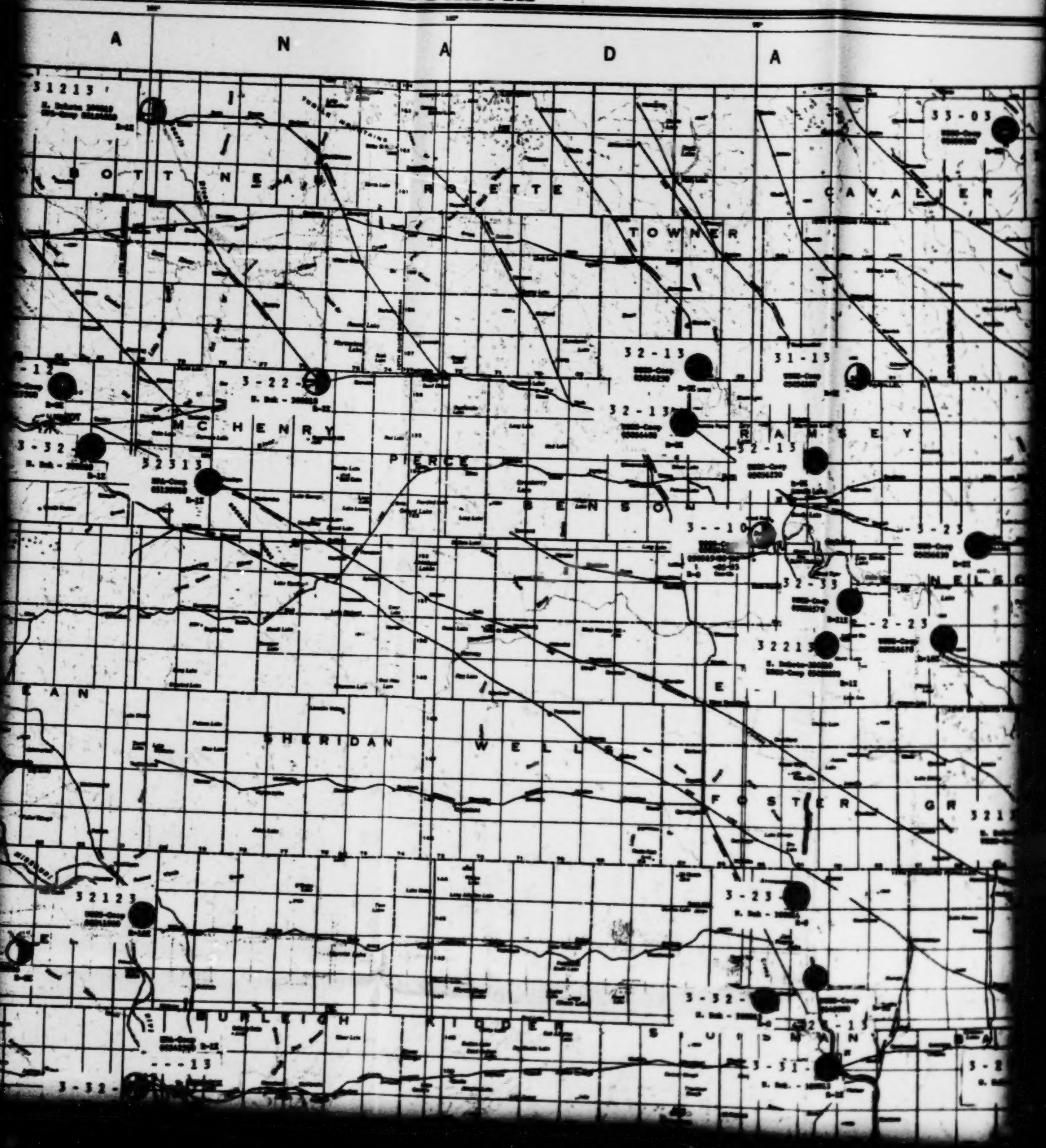
BILLINGS
GOLDEN
VAL
3-21-
3-21-
ARK
MORTON

B

STATE OF NORTH DAKOTA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P I E R C E
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32313
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B E N S O N
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N E L S O
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-2-23
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S H E R I D A N
W E L L S
F O S T E R
G R
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B U R L E I G H
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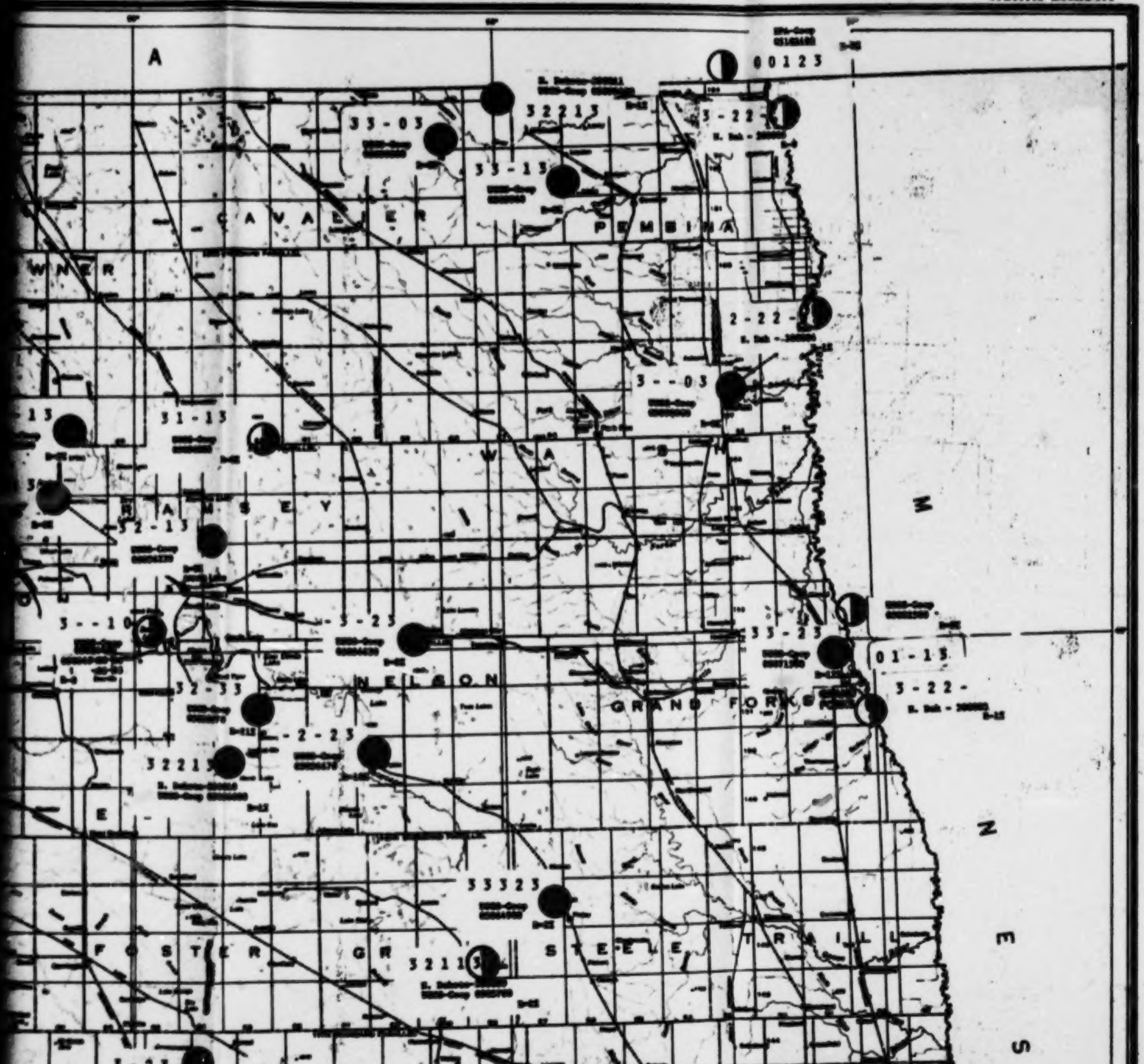
C

NORTH DAKOTA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01-13
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NELSON
GRAND FORKS
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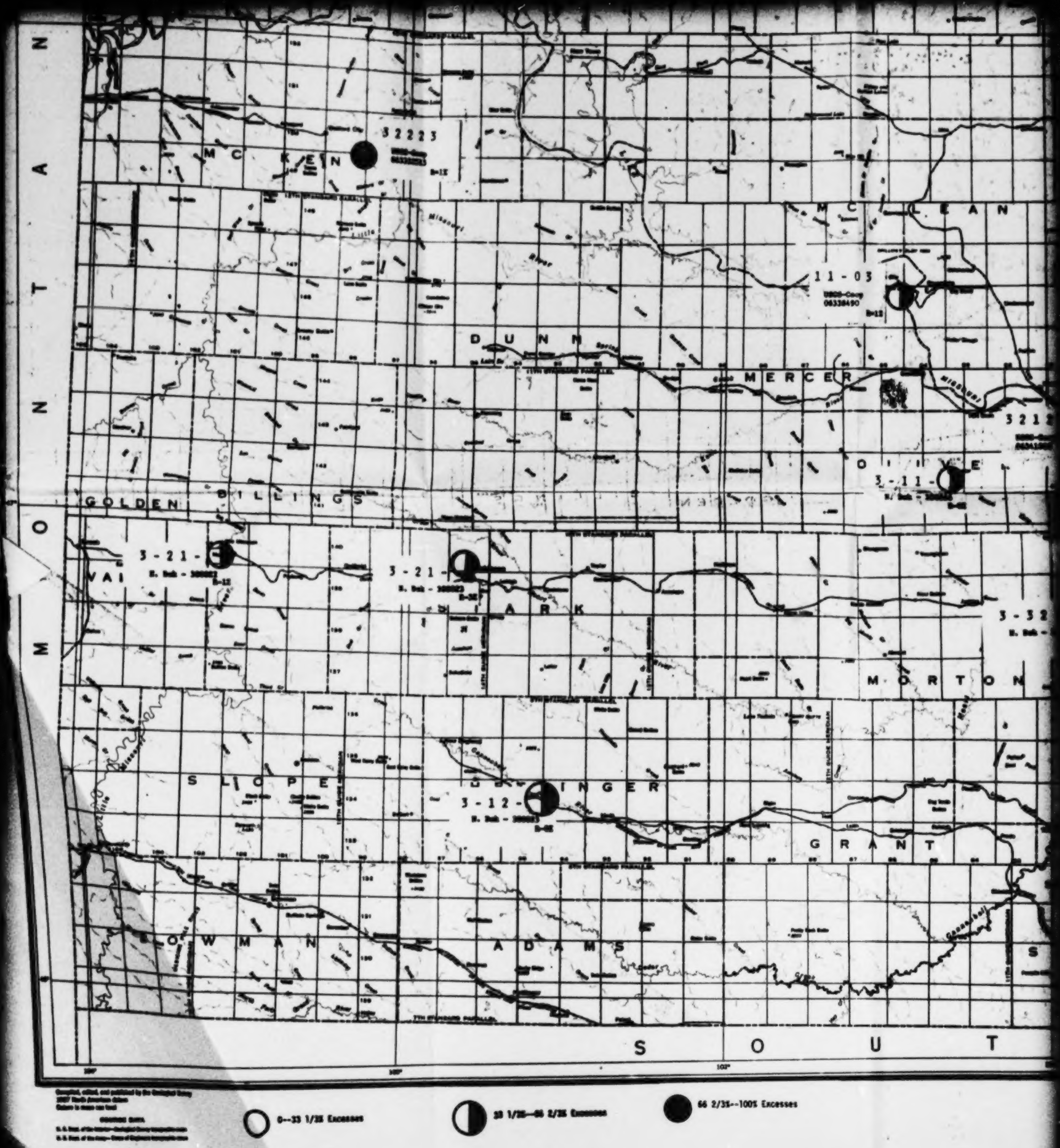M O N T A N A
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B I L L I N G S
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VAL
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3-12-
INGER
G R A N T
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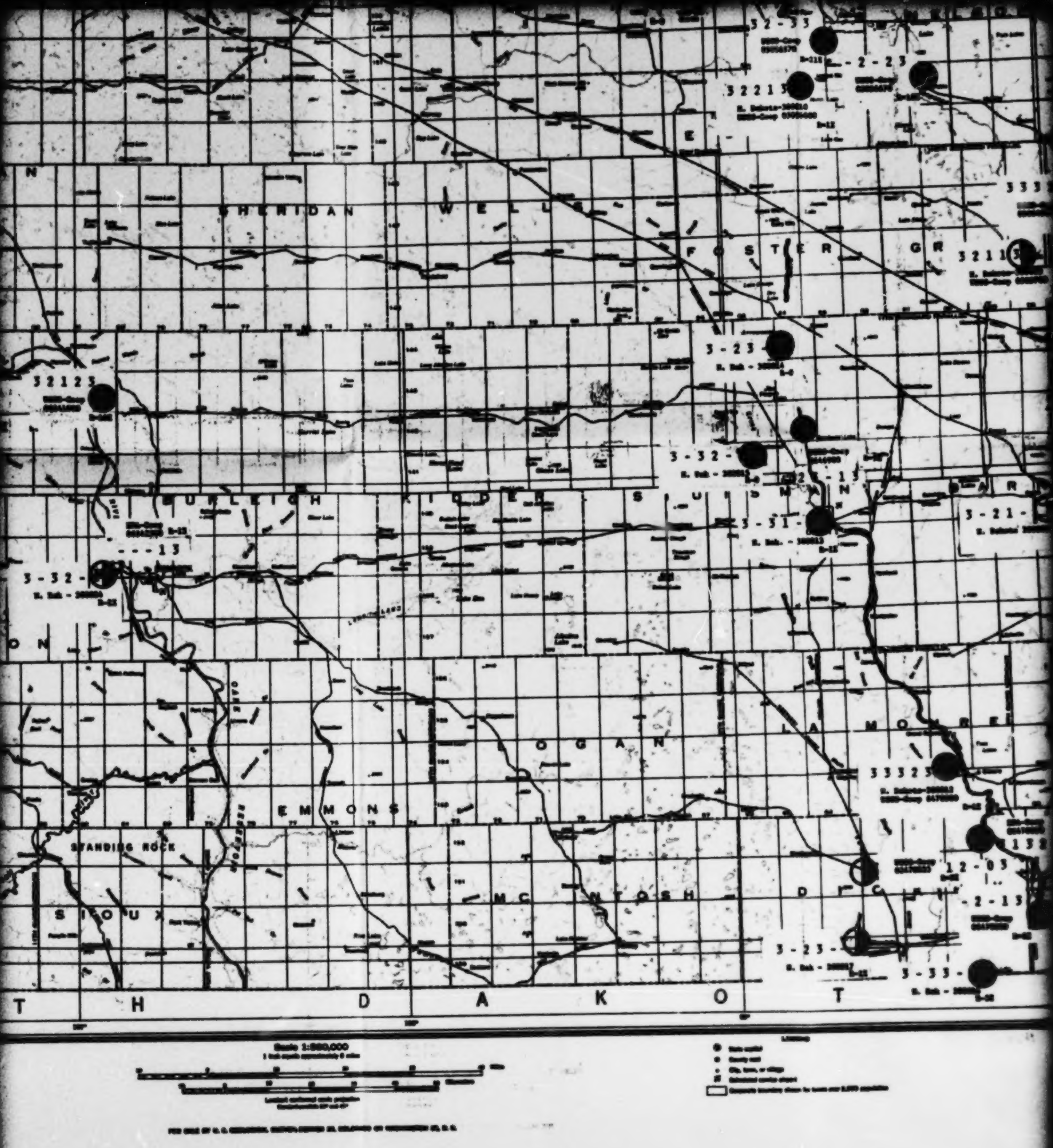
S
○ 0--33 1/3% Excesses
◐ 33 1/3%--66 2/3% Excesses
● 66 2/3%--100% Excesses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BARNES
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3-32-
LOGAN
LA MOURE
33323
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NORTH DAKOTA
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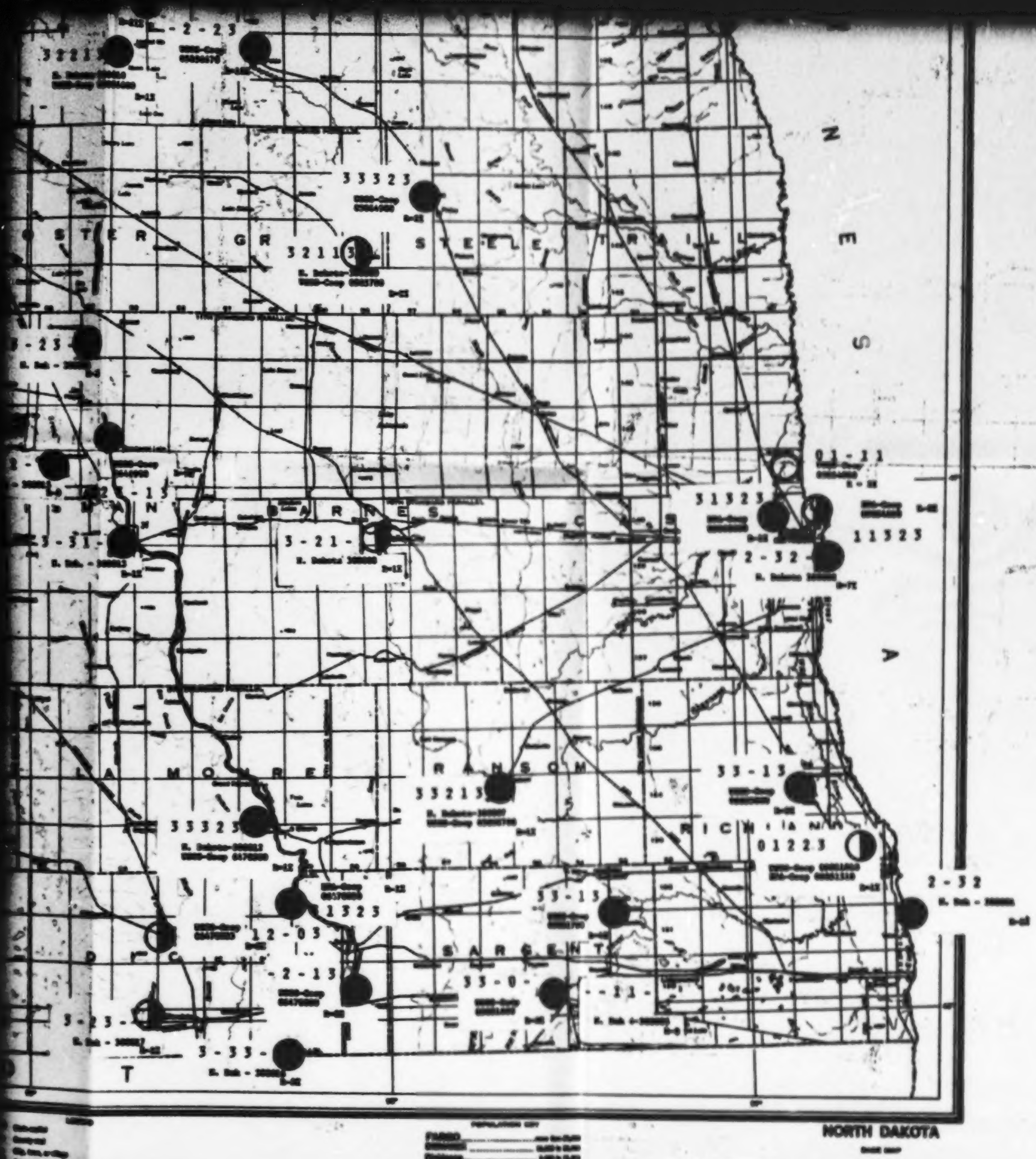
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LA MOURE
RANSOM
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RICHLAND
01223
33323
31323
12-03
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33-13
SARGENT
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33-0
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3-23-
3-33-
T
NORTH DAKOTA

F

D. South Dakota

1. State of South Dakota Water Quality Stations

   a. None of the 10 rateable State stations collected turbidity data.

   b. Manganese was the only parameter in the Hazardous Materials group collected.

   c. DO was the predominant parameter collected in the ORB group. Only 4 stations collected BOD and coliform data in the ORB group.

   d. Seven of nine stations rateable in the TDS group had more than 25% excesses.

   e. Of the reject group, manganese and fecal coliform were predominant, with others noted for TDS and one BOD reject.

   f. Reject percentages were generally in the 1 to 4% category with one main station, the Belle Fourche River near Sturgis, noting the highest reject percentage (15%).

   g. Only one station had less than a 63% weighted value percentage.

   h. One station on Rapid Creek near Farmingdale noted a 100% weighted value percentage.

2. USGS Cooperative Stations

   a. Nineteen of 23 rateable stations in the Nutrient group noted excesses greater than 25%.

   b. Twenty of 21 rateable stations in the TDS group noted excesses greater than 25%.

   c. Fourteen of 23 rateable stations in the Hazardous Materials group noted excesses higher than 25%.

   d. Rejects were mainly noted for TDS, manganese, zinc, and ammonia, with lesser rejects noted for copper, silver, and chromium.

   e. Reject percentages were generally high throughout the State with noteworthy reject percentages at the Cheyenne River at Edgemont (19%), the Belle Fourche River near Elm Springs (15%), and the Big Sioux River near Brandon (15%).

   f. Of the 23 total rateable stations, none had less than a 36% weighted value percentage, and 20 of 23 were higher than 66-2/3%.

   g. One station, the White River near Kadoka, noted a 100% weighted value percentage.

3. Overview

See North Dakota "Overview" regarding stations on the James River.

SOUTH DAKOTA

4. STATION DESCRIPTIONS

SOUTH DAKOTA

NUMBER	STATE STATIONS
460700	Whetstone River nr Big Stone City.
460710	Little Minnesota River near Peever.
460740	Big Sioux nr Watertown.
460745	Vermillion River nr Vermillion.
460755	Vermillion River nr Wakonda.
460760	James River nr Yankton.
460770	James River nr Mitchell.
460805	James River nr Hecla.
460810	Maple River nr Frederick.
460815	Keya Paha River nr Wewela.
460825	White River nr Oacoma.
460835	White River nr Kadoka.
460840	Little White River nr White River, S.D.
460850	Bad River nr Ft. Pierre.
460865	Cheyenne River nr Wasta.
460875	Cheyenne River at Edgemont.
460880	Belle Fourche River nr Sturgis.
460890	Belle Fourche River nr Belle Fourche.
460895	Redwater River at Belle Fourche.
460900	Spearfish Creek in Spearfish.
460905	Battle Creek nr Keystone.
460910	Rapid Creek nr Farmingdale.
460920	Rapid Creek below Pactola.
460925	Box Elder Creek nr Nemo.
460935	Moreau River nr Whitehorse.
460945	Grand River nr Little Eagle.
460955	Little Missouri River at Camp Crook.

NUMBER	USGS STATIONS
05291000	Whetstone River nr Big Stone City.
06395000	Cheyenne River at Edgemont.
06401500	Cheyenne River below Angostura.
06402600	Cheyenne River nr Buffalo Gap.
06409000	Castle Creek ab Deerfield Reservoir.
06428500	Belle Fourche River at Wyo.-So. Dak. Line.
06434500	Inlet Canal nr Belle Fourche.
06436800	Horse Creek nr Vale.
06437000	Belle Fourche River nr Sturgis.
06442650	Brule Creek nr Lower Brule.
06447000	White River nr Kadoka.
06473500	South Fork, Snake Creek, nr Athol.
06476001	James River at Huron.
06476050	James River below Huron.
06478000	James River nr Mitchell
06479000	Vermillion River nr Wakonda.
06479100	Clear Lake nr Lake City.
06479115	Buffalo Lakes so. nr Eden.
06479510	Big Sioux River at Watertown.
06481000	Big Sioux River nr Dell Rapids.
06481500	Skunk Creek nr Sioux Falls.
06485950	Big Sioux River at Sioux City, Iowa.

NUMBER	EPA STATIONS
06395000	Cheyenne River at Edgemont.
06438000	Belle Fourche River nr Elm Springs.
06467500	Missouri River at Yankton.
06478500	James River nr Scotland.
06482100	Big Sioux River nr Brandon.

SOUTH DAKOTA

5. REJECT DATA

More than ten excesses in any parameter reported as a range (<——>) with X excesses of Y values given in parentheses.

CN = Cyanide Cu = Copper Cr = Chromium
Ag = Silver Zn = Zinc Mn = Manganese
NH_3 = Ammonia

REJECT LIST

SOUTH DAKOTA - STATE STATIONS

Station #460700 3/135 = 3% Rejects

Date	Storet # & Desc.	Value
69/04/07	01055 Mn	1100 ug/l
70/03/17	" "	1200 "
72/06/20	" "	1240 "

Station #460710 1/129 = 1% Rejects

68/07/23	01055 Mn	1300 ug/l

Station #460745 2/5 = 20% Rejects

68/12/11	01055 Mn	2500 ug/l
68/12/11	31616 Fecal Coli	42,000/100 ML

Station #460755 1/11 = 8% Rejects

68/06/18	01055 Mn	2400 ug/l

Station #460770 3/32 = 9% Rejects

68/08/07	01055 Mn	1400 ug/l
68/03/07	31616 Fecal Coli	7600/100 ML
68/10/08	" " "	82,000/ " "

Station #460810 2/58 = 3% Rejects

69/09/25	01055 Mn	1040 ug/l
70/10/12	00515 TDS	2618 mg/l

Station #460825 2/12 = 16% Rejects

68/04/30	01055 Mn	2500 ug/l
69/03/27	" "	5500 "

Station #460835 1/33 = 3% Rejects

69/03/30	01055 Mn	6500 ug/l

Station #460850 2/11 = 18% Rejects

68/04/15	01055 Mn	1500 ug/l
69/03/24	" "	10,000 "

Station #460865 1/37 = 3% Rejects

68/06/13	01055 Mn	3200 ug/l

Station #460875 5/33 = 15% Rejects

Date	Storet # & Desc.	Value
68/05/24	00515 TDS	3850 mg/l
68/08/29	" "	3170 "
69/05/18	" "	2610 "
69/09/28	" "	5815 "
70/05/24	" "	3193 "

Station #460880 9/83 = 15% Rejects

69/01/22	00515 TDS	3270 mg/l
70/01/18	" "	3459 "
68/04/17	01055 Mn	2600 ug/l
68/09/08	" "	2600 "
69/04/13	" "	10,000 "
69/09/21	" "	11,000 "
70/05/11	" "	6400 "
68/07/18	31616 Fecal Coli	5440/100 ML
69/04/13	" " "	5100/ " "

Station #460890 3/78 = 4% Rejects

69/01/22	01055 TDS	2300 mg/l
70/01/18	" "	2767 "
70/05/11	31616 Fecal Coli	4700/100 ML

Station #460910 1/34 = 1% Rejects

68/07/31	00310 BOD	30 mg/l

Station #460945 1/27 = 4% Rejects

71/03/27	01055 Mn	1100 ug/l

REJECT LIST

SOUTH DAKOTA - EPA COOP STATIONS

Station #06395000 46/239 = 19% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	3300 ⟷ 7100 mg/1 (17 of 22)
71/07/21	00720 CN	0.05 mg/1
71/01/12	01075 Ag	2 ug/1
Throughout	00610 NH_3	.05 ⟷ 2.4 mg/1 (15 of 22)
70/07/15	01040 Cu	32 ug/1
70/10/13	" "	30 "
71/01/12	" "	29 "
71/04/13	" "	75 "
70/07/15	01090 Zn	37 "
70/10/13	" "	20 "
71/01/12	" "	30 "
71/04/13	" "	20 "
71/07/21	" "	490 "
71/10/20	" "	20 "
72/01/11	" "	420 "
72/04/12	" "	20 "

Station #06438000 55/359 = 15% Rejects

Date	Storet # & Desc.	Value
69/07/17	01040 Cu	33 ug/1
69/10/30	" "	37 "
70/07/10	" "	29 "
70/10/14	" "	52 "
71/01/13	" "	80 "
[illegible]	" "	72 "
[illegible]/12	" "	40 "
Throughout	01090 Zn	11 ⟷ 40 ug/1 (9 of 12)
70/10/14	70300 TDS	2110 mg/1
70/11/18	" "	2560 "
70/12/15	" "	3530 "
71/01/13	" "	4410 "

Station #06438000 (Cont.)

Date	Storet # & Desc.	Value
71/02/10	70300 TDS	2130 mg/1
71/11/18	" "	2340 "
71/12/16	" "	2480 "
72/01/12	" "	2800 "
72/02/15	" "	2440 "
Throughout	00610 NH_3	.08 ⟷ .72 mg/1 (25 of 31)
69/09/24	31501 Tot Coli	24,000/100 ML
69/07/17	00070 Turb	480 JTU
69/08/27	" "	180 "
69/09/24	" "	150 "
70/03/10	" "	55 "

Station #06467500 13/133 = 7% Rejects

Date	Storet # & Desc.	Value
Throughout	00610 NH_3	.06 ⟷ .20 mg/1 (13 of 32)

Station #06478500 35/552 = 6% Rejects

Date	Storet # & Desc.	Value
69/02/15	70300 TDS	2110 mg/1
71/01/21	" "	2270 "
71/01/21	01056 Mn	2000 ug/1
71/04/30	" "	1300 "
Throughout	00610 NH_3	.06 ⟷ 1.5 mg/1 (26 of 32)
71/01/21	01040 Cu	25 ug/1
71/01/21	01090 Zn	20 "
71/04/30	" "	30 "
71/08/19	" "	20 "
71/07/07	00400 pH	9.7

Station #06482100 31/188 = 15% Rejects

Date	Storet # & Desc.	Value
70/10/12	01090 Zn	29 ug/1
70/03/10	00070 Turb	75 JTU
Throughout	00610 NH_3	.06 ⟷ 36.0 mg/1 (29 of 30)

REJECT LIST

SOUTH DAKOTA - USGS COOP STATIONS

Station #05291000 11/93 = 12% Rejects

Date	Storet # & Desc.	Value
68/01/09	01055 Mn	730 ug/l
68/02/05	" "	520 "
68/03/05	" "	300 "
68/03/20	" "	330 "
68/04/20	" "	250 "
68/05/01	" "	410 "
68/05/21	" "	160 "
68/05/28	" "	220 "
68/07/02	" "	260 "
69/05/02	01056 Mn	90 "
69/06/04	" "	120 "

Station #06409000 3/433 = 1% Rejects

Date	Storet # & Desc.	Value
68/01/22	01090 Zn	40 ug/l
69/10/27	" "	14 "
70/10/12	" "	15 "

Station #06428500 15/496 = 3% Rejects

Date	Storet # & Desc.	Value
68/01/19	70300 TDS	2190 mg/l
69/02/10	" "	2240 "
70/01/22	" "	2470 "
70/01/31	" "	2140 "
71/01/05	" "	2200 "
71/11/16	" "	2140 "
70/11/13	01090 Zn	20 ug/l
71/04/14	" "	20 "
71/07/20	" "	140 "
72/01/11	" "	20 "
72/04/27	" "	130 "
71/04/14	00610 NH_3	.75 mg/l
71/10/05	" "	.75 "
72/01/11	" "	.05 "
72/04/27	" "	.06 "

Station #06434500 1/237 = 1% Rejects

Date	Storet # & Desc.	Value
70/06/01	01090 Zn	22 ug/l

Station #06436800 38/338 - 11% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	2280 ←→ 9450 mg/l (37 of 60)
70/05/27	01090 Zn	23 ug/l

Station #06437000 22/355 = 6% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	2100 ←→ 3650 mg/l (18 of 61)
70/05/14	01090 Zn	12 ug/l
70/10/08	" "	20 "
72/02/07	01040 Cu	70 "
70/12/23	01056 Mn	1300 "

Station #06442650 1/7 = 13% Rejects

Date	Storet # & Desc.	Value
71/04/01	70300 TDS	2690 mg/l

Station #06447000 16/106 = 15% Rejects

Date	Storet # & Desc.	Value
69/07/16	01090 Zn	26 ug/l
69/10/28	" "	20 "
70/01/14	" "	20 "
69/08/26	00300 D.O.	2.0 mg/l
69/07/16	00070 Turb	3200 JTU
69/08/26	" "	10,000 "
69/09/25	" "	2000 "
69/10/28	" "	800 "
70/03/11	" "	150 "
70/04/14	" "	180 "
69/07/16	00400 pH	9.6
70/04/14	" "	9.3
69/07/16	00610 NH_3	0.05 mg/l
69/08/26	" "	0.13 "
70/01/14	" "	0.06 "
70/03/11	" "	0.07 "

Station #06473500 2/42 = 4% Rejects

Date	Storet # & Desc.	Value
72/03/17	00610 NH_3	0.96 mg/l
70/05/12	01056 Mn	1780 ug/l

Station #06476001 28/329 = 9% Rejects

Date	Storet # & Desc.	Value
70/03/06	01056 Mn	1120 ug/l
70/05/26	" "	1190 "
70/10/13	" "	1300 "
71/03/01	" "	6600 "
70/01/09	01075 Ag	9.200 ug/l
Throughout	00610 NH_3	.08 ←→ 1.4 mg/l (17 of 20)
69/07/28	01090 Zn	18 ug/l
69/07/29	" "	18 "
69/10/14	" "	20 "
70/01/09	" "	26 "
70/05/12	00300 D.O.	2.2 mg/l
70/06/17	00070 Turb	70 JTU

Station #06476050 1/6 = 17% Rejects

Date	Storet # & Desc.	Value
70/10/13	01090 Zn	26 ug/l

Station [illegible] 5/204 = 2% Rejects

Date	Storet # & Desc.	Value
[illegible]	70300 TDS	2200 mg/l
[illegible]	" "	2140 "
[illegible]	01056 Mn	1100 ug/l
[illegible]	" "	1200 "
70/10/12	01090 Zn	27 "

Station [illegible] 15/147 = 11% Rejects

Date	Storet # & Desc.	Value
[illegible]	[illegible] Mn	4400 ug/l
[illegible]	" "	2000 "
[illegible]	" "	1400 "
[illegible]	" "	1420 "
68/05/22	" "	1130 "
68/06/11	" "	1300 "
69/09/17	" "	1020 "
69/07/30	01056 Mn	1060 "
69/08/09	" "	1110 "
69/09/17	" "	1020 "
70/01/06	" "	1240 "

REJECT LIST

SOUTH DAKOTA - USGS COOP STATIONS (Cont.)

Station #06479000 (cont.)

Date	Storet # & Desc.	Value
70/07/16	01056 Mn	1100 ug/1
70/05/25	01040 Cu	68 "
70/05/25	01075 Ag	4 "
70/05/25	01090 Zn	16 "
Station #06479100		1/9 = 17% Rejects
70/06/25	01040 Cu	25 ug/1
Station #06479115		1/7 = 13% Rejects
70/06/25	01040 Cu	32 ug/1
Station #06479510		1/6 = 17% Rejects
70/10/14	01090 Zn	28 ug/1
Station #06481500		1/84 = 1% Rejects
68/02/08	01055 Mn	1300 ug/1
Station #06482830		3/18 = 17% Rejects
70/08/11	01056 Mn	1900 ug/1
71/04/03	" "	1800 "
70/08/11	70300 TDS	2230 mg/1
Station #06485500		4/162 = 2% Rejects
68/01/15	01055 Mn	3600 ug/1
68/02/06	" "	2600 "
71/01/20	01056 Mn	3000 "
70/05/25	01090 Zn	17 "
Station #06485950		28/251 = 11% Rejects
70/12/09	01040 Cr	22 ug/1
71/03/10	" "	21 "
71/03/10	01075 Ag	3 "
69/12/10	01090 Zn	140 "
70/03/10	" "	760 "
70/06/09	" "	30 "
70/09/10	" "	60 "
70/12/09	" "	140 "

Station #06485950 (cont.)

Date	Storet # & Desc.	Value
71/03/10	01090 Zn	190 ug/1
71/06/10	" "	20 "
71/09/08	" "	20 "
71/12/08	" "	60 "
72/03/03	" "	80 "
72/06/06	" "	80 "
Throughout	00610 NH_3	.12 ⟷ 3.1 mg/1 (14 of 17)

COMBINED STATION REJECTS LIST

SOUTH DAKOTA

So. Dak. #460700	3/135
USGS Coop. #05291000	11/ 93
	14/228 = 6%
So. Dak. #460755	1/ 11
USGS Coop. #06479000	15/137
	16/148 = 11%
So. Dak. #460835	1/ 33
USGS Coop. #06447000	16/106
	17/138 = 13%
So. Dak. #460875	5/ 33
EPA Coop. #06395000	46/239
	51/272 = 19%
So. Dak. #460770	3/ 32
USGS Coop. #06478000	5/204
	8/236 = 3%
So. Dak. #460880	9/ 83
USGS Coop. #06437000	22/355
	31/438 = 7%

SOUTH DAKOTA

6. DATA REDUCTION FORMS

SOUTH DAKOTA STATE STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
460700	4/68-6/72	14	15	93	17	18*	94	3	53*	6	3	30	10	7	19	37	3 3 1 2 3	29	36	80
460710	4/68-6/72	13	15	87	18	19*	95	2	35*	6	3	32	9	0	18	0	3 3 1 1 0	22	33	66
460740	6/68-3/72	3	6	50	6	10*	60	8	18*	44	1	16	6	5	10	50	- 3 3 1 3	31	33	94
460745	1/68-12/68	0	0	0	1	1*	100	1	1*	100	0	2	0	0	1	0	- - - - - -	x	x	
460755	6/68-12/68	0	1	0	2	2*	100	0	2*	0	0	4	0	0	2	0	- - - - - -	x	x	
460760	3/68-10/70	1	1	100	3	4*	75	0	2*	0	0	7	0	0	4	0	- - - - - -	x	x	
460770	3/68-10/70	1	1	100	8	8*	100	2	7*	29	4	8	50	0	8	0	- - - - - -	x	x	
460805	4/68-6/72	8	12	67	16	18*	89	2	31*	6	6	23	26	5	18	28	3 3 1 3 3	30	36	84
460810	4/68-3/72	3	6	50	9	10*	90	0	17*	0	4	15	27	2	10	20	- 3 0 3 2	22	33	66
460815	5/68-3/69	0	1	0	0	2*	0	0	3*	0	0	4	0	0	2	0	- - - - - -	x	x	
460825	4/68-3/69	0	2	0	2	2*	100	1	2*	50	0	4	0	0	2	0	- - - - - -	x	x	
460835	5/68-5/70	4	5	80	5	5*	100	0	9*	0	3	9	33	0	5	0	- - - - - -	x	x	

*All MN

*No BOD

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
460840	5/68--8/68	0	2	0	2	2*	100	0	2*	0	0	4	0	0	2	0	- - - - -	x	x	
460850	4/68-3/69	2	2	100	2	2*	100	1	2*	50	0	3	0	0	2	0	- - - - -	x	x	
460865	4/68-5/70	5	6	83	2	6*	33	2	9*	11	1	10	10	2	6	33	- - - 2 -	x	x	
460875	5/68-5/70	5	5	100	4	5*	80	2	9*	11	2	9	22	0	5	0	- - - - -	x	x	
460880	4/68-6/70	13	13	100	5	5*	100	27	35	77	5	25	20	4	5	80	3 - 3 2 -	9	12	75
460890	4/68-6/70	11	12	92	0	5*	0	5	31	16	4	25	16	1	5	20	3 - 2 2 -	11	15	73
460895	4/68-5/70	1	1	100	2	5*	40	0	1*	0	1	2	50	1	5	20	- - - - -	x	x	
460900	4/68-5/70	0	1	0	0	4*	0	0	1*	0	1	7	14	0	4	0	- - - - -	x	x	
460905	5/68-6/70	1	12	8	4	6*	67	2	31	6	4	25	16	0	6	0	2 - 2 2 -	10	15	66
460910	5/68-6/70	11	12	92	5	5*	100	11	37	30	9	25	36	4	5	80	3 - 3 3 -	15	15	100
460920	5/68-6/70	0	12	0	1	5*	20	2	32	6	1	24	4	0	5	0	0 - 1 1 0	4	21	19
460925	10/68-5/70	0	4	0	1	3*	33	0	8*	0	2	8	25	0	3	0	- - - - -	x	x	

*All MN

*No BOD.

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	Rated Weight	Max Weight	%
460935	4/68-3/72	4	5	80	3	5*	60	0	5*	0	1	4	25	0	5	0	- - - - -	x	x	
460945	4/68-3/72	4	5	80	4	5*	80	1	5*	20	0	7	0	0	5	0	- - - - -	x	x	
460935	5/68-5/70	4	4	100	1	5*	20	0	9*	0	1	4	25	0	5	0	- - - - -	x	x	

*All MN *No BOD

SOUTH DAKOTA USGS/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III ORB WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING Rated Weight	Max Weight	%
05291000	1/68-6/69	18	18	100	11	11	100	0	0	0	0	35	0	16	29	55	3 3 - 0 3	24	27	89
06402600	10/68-7/7	48	48	100	10	15	67	0	0	-	4	111*	4	46	124	37	3 3 - 1 3	25	27	93
06409000	1/68-7/72	0	41	0	6	77	8	2	112	2	14	166*	8	9	77	12	0 1 1 1 2	13	36	36
06428500	1/68-9/72	108	111	97	17	85	20	4	31	13	10	160*	6	2	111	2	3 2 2 1 1	22	36	61
06434500	10/68-7/7	38	42	90	4	25	16	0	0	-	3	78	4	27	92	29	3 2 - 1 3	20	27	74
06436700	7/68-8/69	3	3	-	1	1	-	0	0	-	1	6	-	2	5	-	- - - - -	x	x	
06436800	1/68-7/71	59	60	98	14	27	52	0	0	-	5	112	4	107	140	76	3 3 - 1 3	25	27	93
06437000	10/68-2/7	60	61	98	30	66	45	0	0	-	10	115	9	84	113	74	3 3 - 1 3	25	27	93
06447000	7/69-4/70	1	1	100	3	25	12	11	26	42	15	45	33	4*	9*	44	- 2 3 3 -	22	27	82
06473500	6/69-6/72	3	5	60	2	13	15	0	0	0	2	10	20	7	13	54	- 2 - 2 3	18	24	75
06476001	1/68-8/71	47	56	84	41	84	49	9	29	31	17	120	14	38	40	95	3 3 3 2 3	35	36	98
06478000	10/68-1/7	35	43	81	12	29	41	0	0	0	6	75	8	35	54	65	3 3 - 1 3	25	27	93

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(-)=Not Rateable	Rated Weight	Max Weight	%
06479000	1/68-6/72	16	17	94	21	27	78	0	0	0	10	47	21	19	36	53	3 3 - 2 3	26	27	97
06481000	1/68-1/72	35	48	73	18	29	62	0	0	0	8	91	9	58	73	79	3 3 - 1 3	25	27	95
06481500	1/68-6/72	9	12	75	11	13	85	0	0	0	5	35	14	17	24	71	3 3 - 2 3	26	27	97
06485500	1/68-6/72	15	18	83	11	51	22	1	2	40	8	51	16	38	40	95	3 2 - 2 3	21	27	78
06485950	7/69-6/72	10	17	59	33	117	28	28	52	54	13	48	27	13	17	76	3 3 - 3 3	36	36	100
0639500	7/70-4/72	22	22	100	27	101	27	6	42	15	8	72*	11	6	18	33	3 3 2 2 3	32	36	89
06401500	10/68-4/71	41	41	100	5	18	28	0	0	-	5	47*	11	10	62	16	3 3 - 2 2	24	27	89

*No Turb.

*Nitrate Only

SOUTH DAKOTA COMBINED STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

		I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORG WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
Station Number(s)	Period of Record	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
S. Dak. 460700 &	4/68-6/72	32			28			*3			3			23				28		
USGS-Coop 05291000	1/68-6/69		33	97		39	72		*53	6		65	5		48	48	3 3 1 1 3		36	78
S. Dak. 460755 &	6/68-12/68	16**			23			*0			*10			19**				26		
USGS-Coop 06479000	1/68-6/72		18	89		29	79		*2	0		51	21		38	50	3 3 - 2 3		27	96
S.Dak. 460770 &	3/68-10/70	36			20			*2			10			35**				35		
USGS 06478000	10/68-1/72		44	82		37	54		*7	29		83	12		62	56	3 3 3 2 3		36	98
S. Dak. 460835 &	5/68-5/70	5			8			11 **			18			4**				33		
USGS-Coop 06447000	7/69-4/70		6	83		30	27		35	31		54	33		14	29	- 3 3 3 3		33	100
S. 460875 &	5/68-5/70	27			15			9			10			22**				27		
EPA-Coop 0639500	7/70-4/72		27	100		68	12		52	17		81	11		39	56	3 2 2 2 3		36	75
S. Dak. 460880 &	4/68-6/70	73			35			*27			15			88				5		
USGS-06437000	10/68-2/72		74	98		71	49		*35	77		140	11		118	75	3 3 3 2 3		36	98

*S. Dak. Only
**USGS-Coop Only

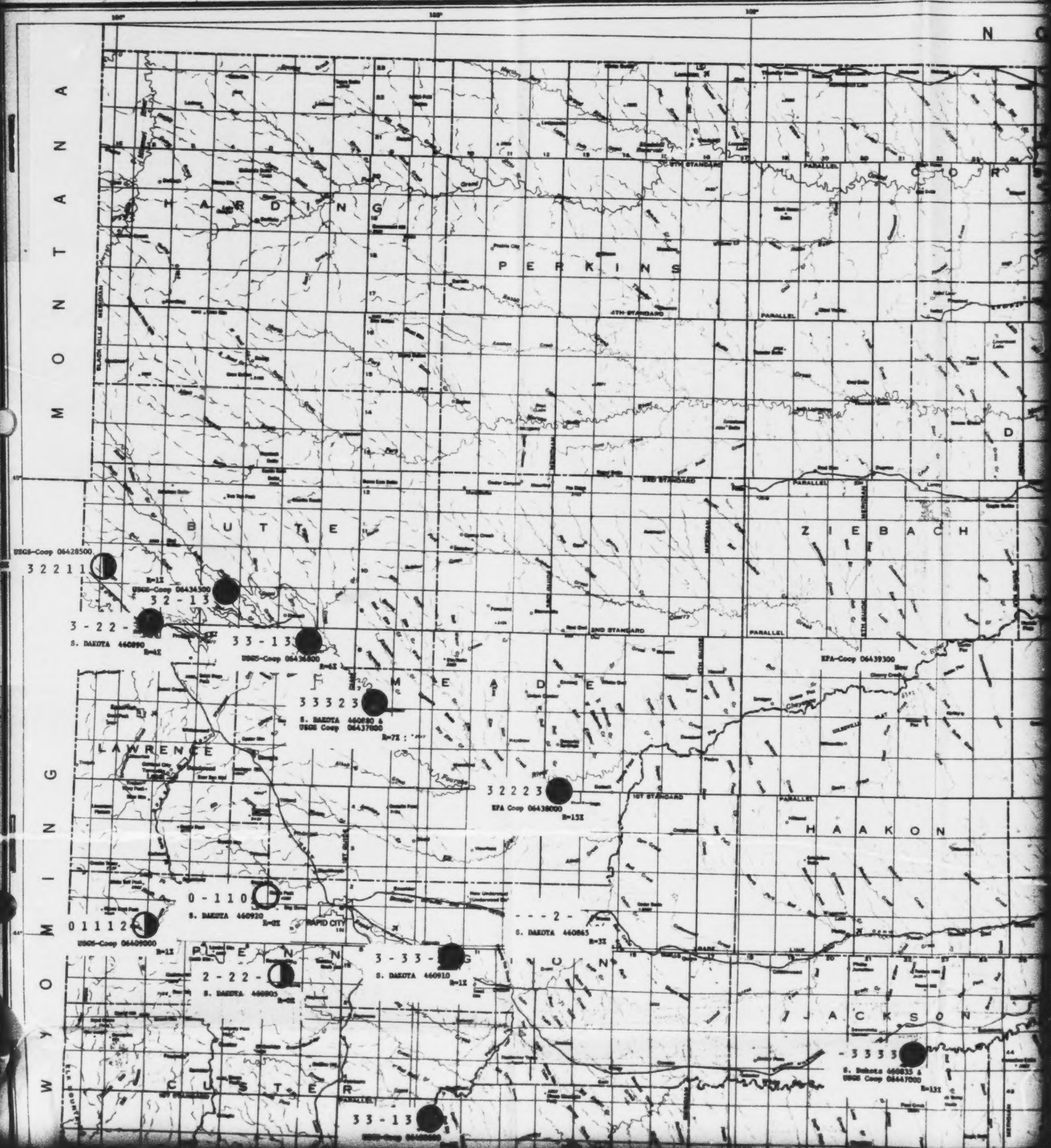
SOUTH DAKOTA EPA/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

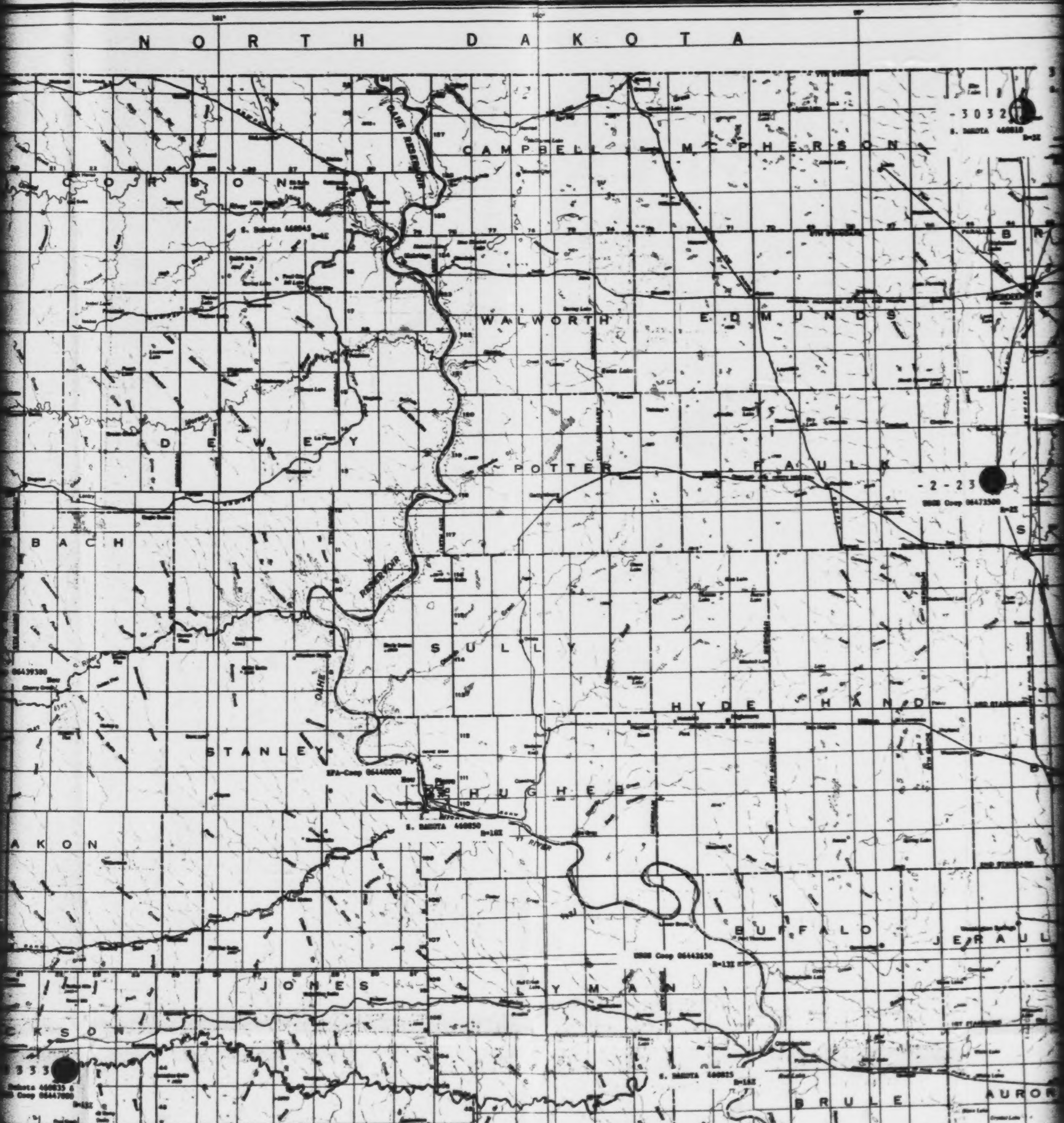
PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III [illegible] WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING					WEIGHTED [illegible]		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	[illegible]					Rated Values	[illegible]	%
06395000	7/70-4/72	22	22	100	15	68	22	7	43	16	8	72	11	22	56	65	3	2	2	2	3	27	36	7
06438000	7/69-4/72	23	23	100	22	98	22	13	63	21	26	109	22	55	56	95	3	2	2	2	3	27	36	7
06467500	7/69-6/72	15	21	71	14	32	44	0	2	0	8	74	11	24	54	45	3	3	-	2	3	26	37	9
06478500	1/68-6/72	27	30	90	63	276	23	16	71	23	26	137	19	43	62	69	3	2	2	2	3	27	36	7
06482100	7/69-6/72	18	22	82	43	50	86	2	3	66	18	80	23	49	63	78	3	3	-	2	3	26	27	9

A

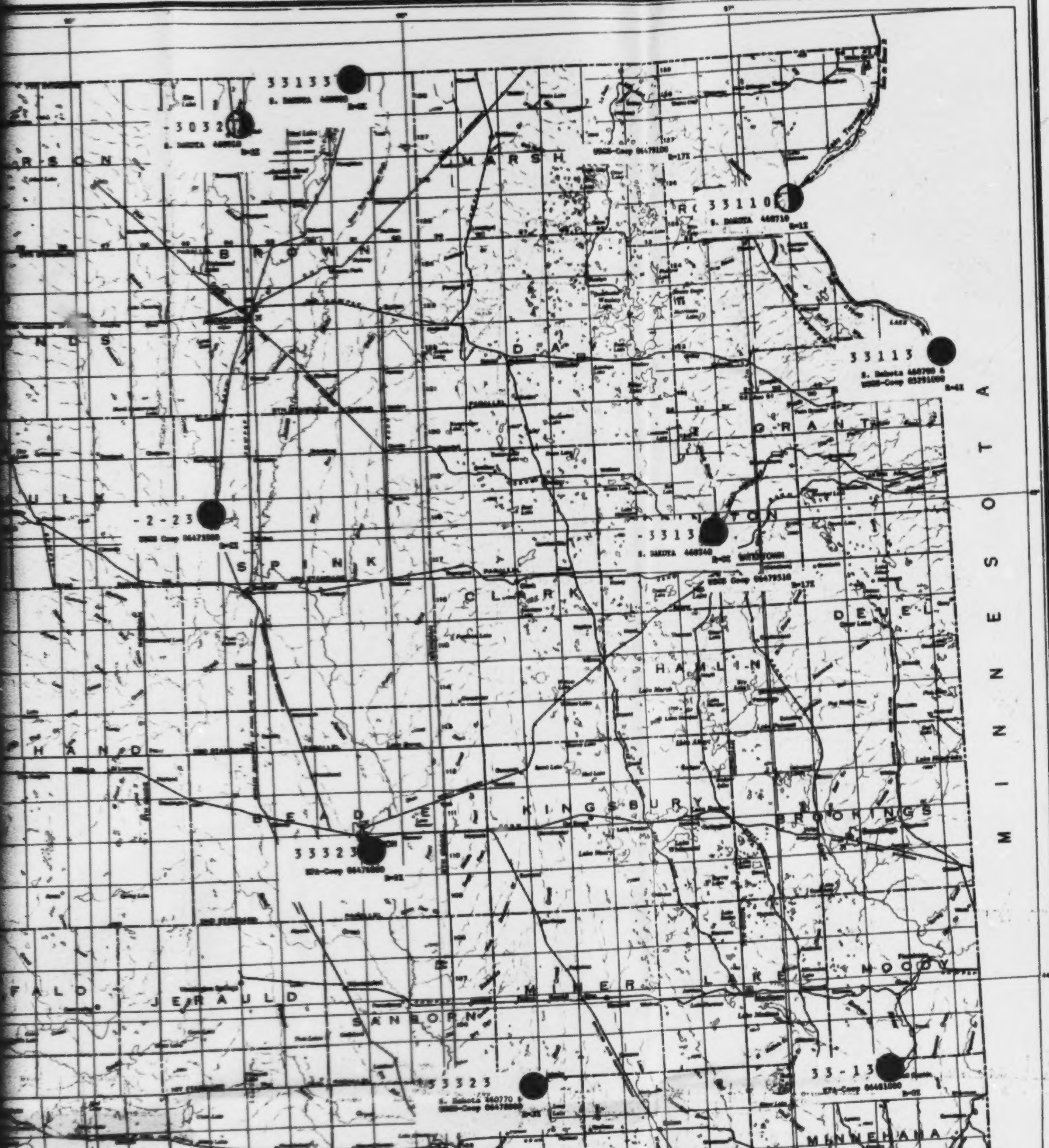

MONTANA
WYOMING
HARDING
PERKINS
CORSON
BUTTE
ZIEBACH
MEADE
LAWRENCE
HAAKON
PENNINGTON
JACKSON
CUSTER
RAPID CITY
USGS-Coop 06428500
3 2 2 1 1
R=1%
USGS-Coop 06434500
3 2 - 1 3
3 - 2 2 -
S. DAKOTA 460890
R=4%
3 3 - 1 3
USGS-Coop 06436000
R=6%
3 3 3 2 3
S. DAKOTA 460880 &
USGS Coop 06437000
R=7%
3 2 2 2 3
EPA Coop 06438000
R=15%
EPA-Coop 06439300
0 - 1 1 0
S. DAKOTA 460920
R=0%
0 1 1 1 2
USGS-Coop 06409000
R=1%
- - - 2 -
S. DAKOTA 460865
R=3%
2 - 2 2 -
S. DAKOTA 460905
R=0%
3 - 3 3 -
S. DAKOTA 460910
R=1%
- 3 3 3 3
S. Dakota 460835 &
USGS Coop 06447000
R=13%
3 3 - 1 3
2ND STANDARD
PARALLEL
1ST STANDARD
4TH STANDARD
BLACK HILLS MERIDIAN

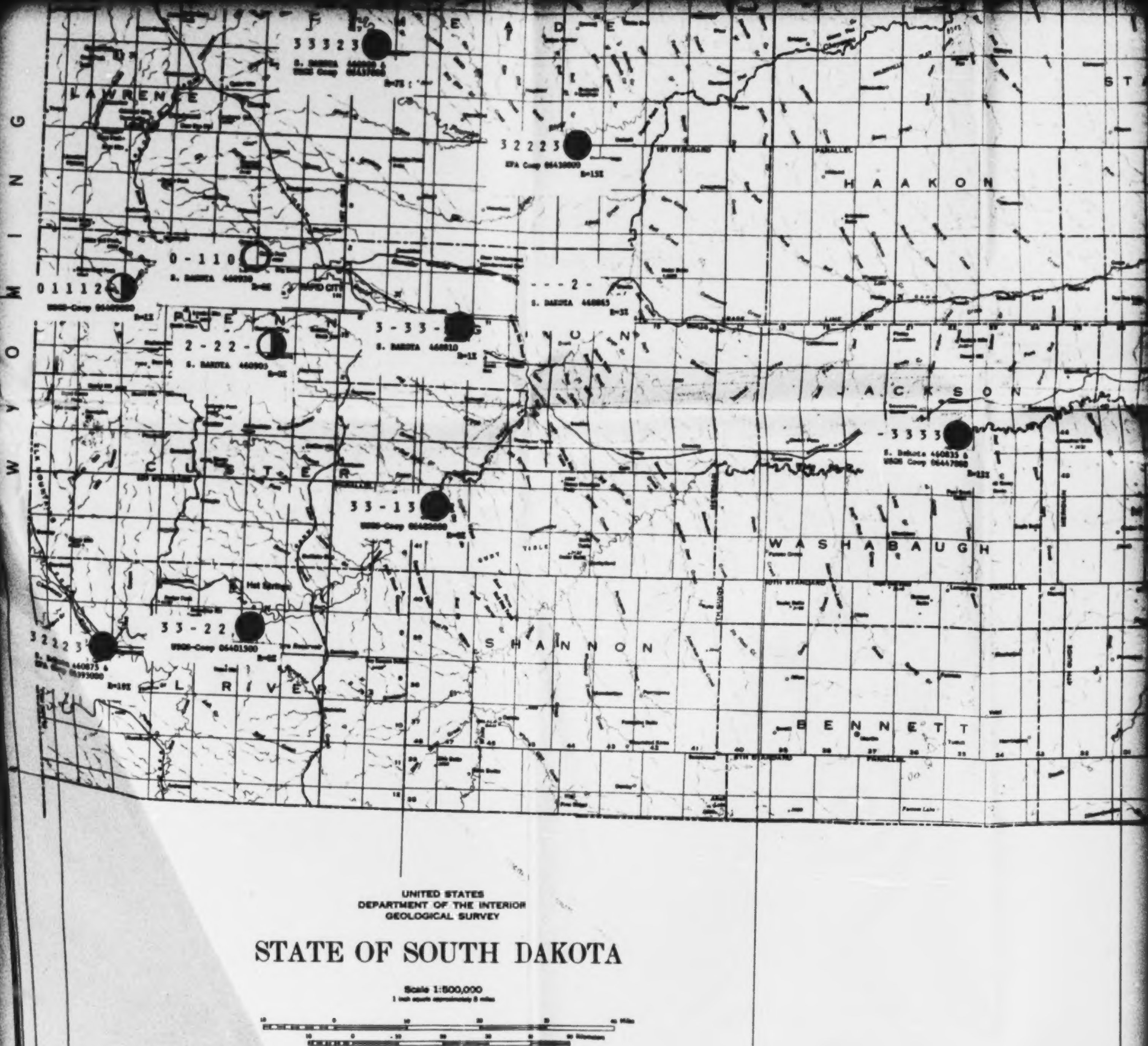
B


NORTH DAKOTA
-3032
S. DAKOTA 460810
B-32
CAMPBELL
MCPHERSON
CORSON
OAHE RESERVOIR
S. Dakota 460045
B-42
WALWORTH
EDMUNDS
DEWEY
POTTER
FAULK
-2-23
USGS Coop 06472500
B-22
BACH
RESERVOIR
SULLY
OAHE
USGS Coop 06439300
STANLEY
HYDE
HAND
EPA-Coop 06440000
HUGHES
S. DAKOTA 460850
AKON
BUFFALO
JERAUL
USGS Coop 06442650
JONES
LYMAN
CKSON
3333
Dakota 460835 &
Coop 06447000
S. DAKOTA 460815
BRULE
AUROR
MELLETTE

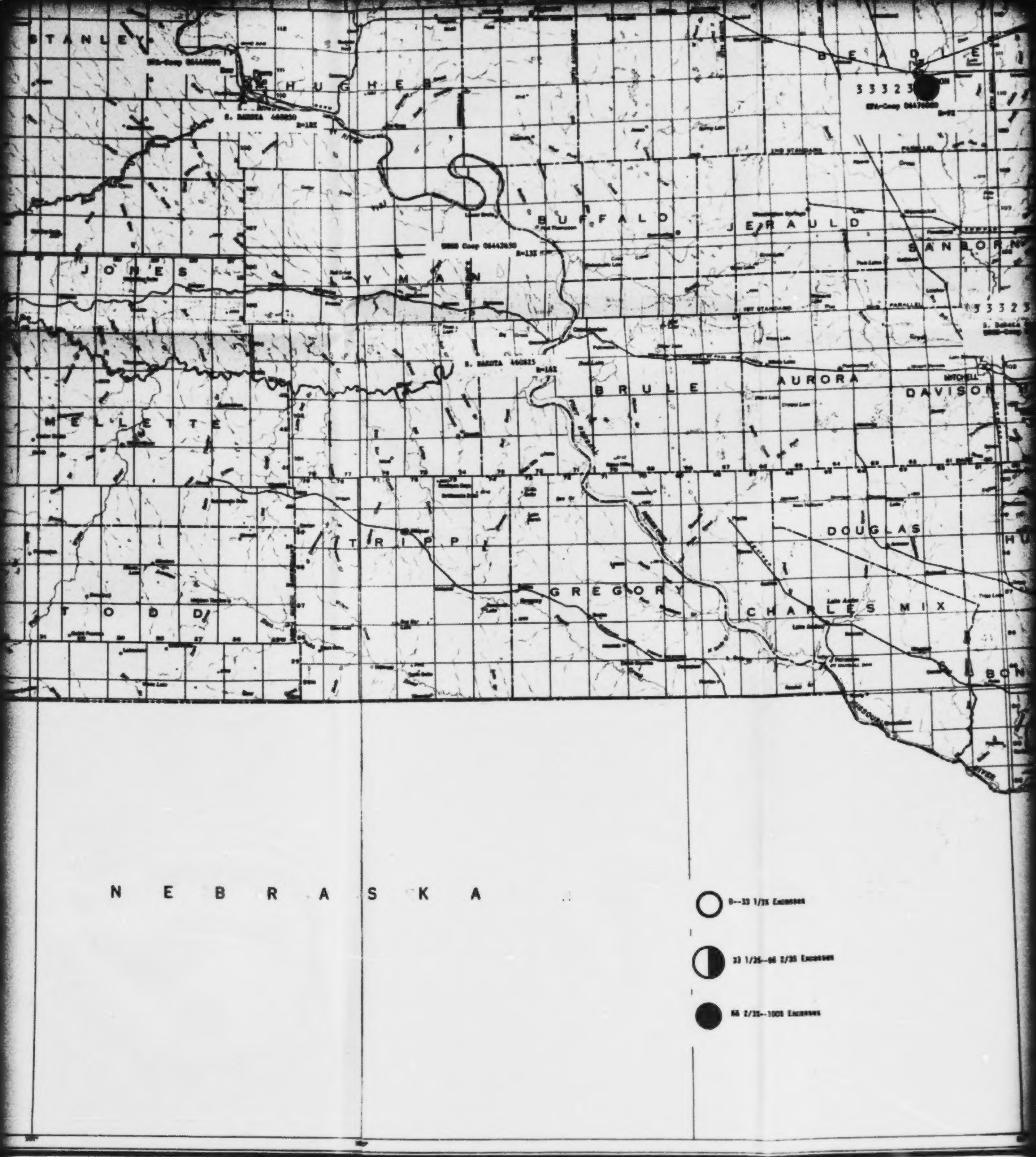
C

SOUTH DAKOTA

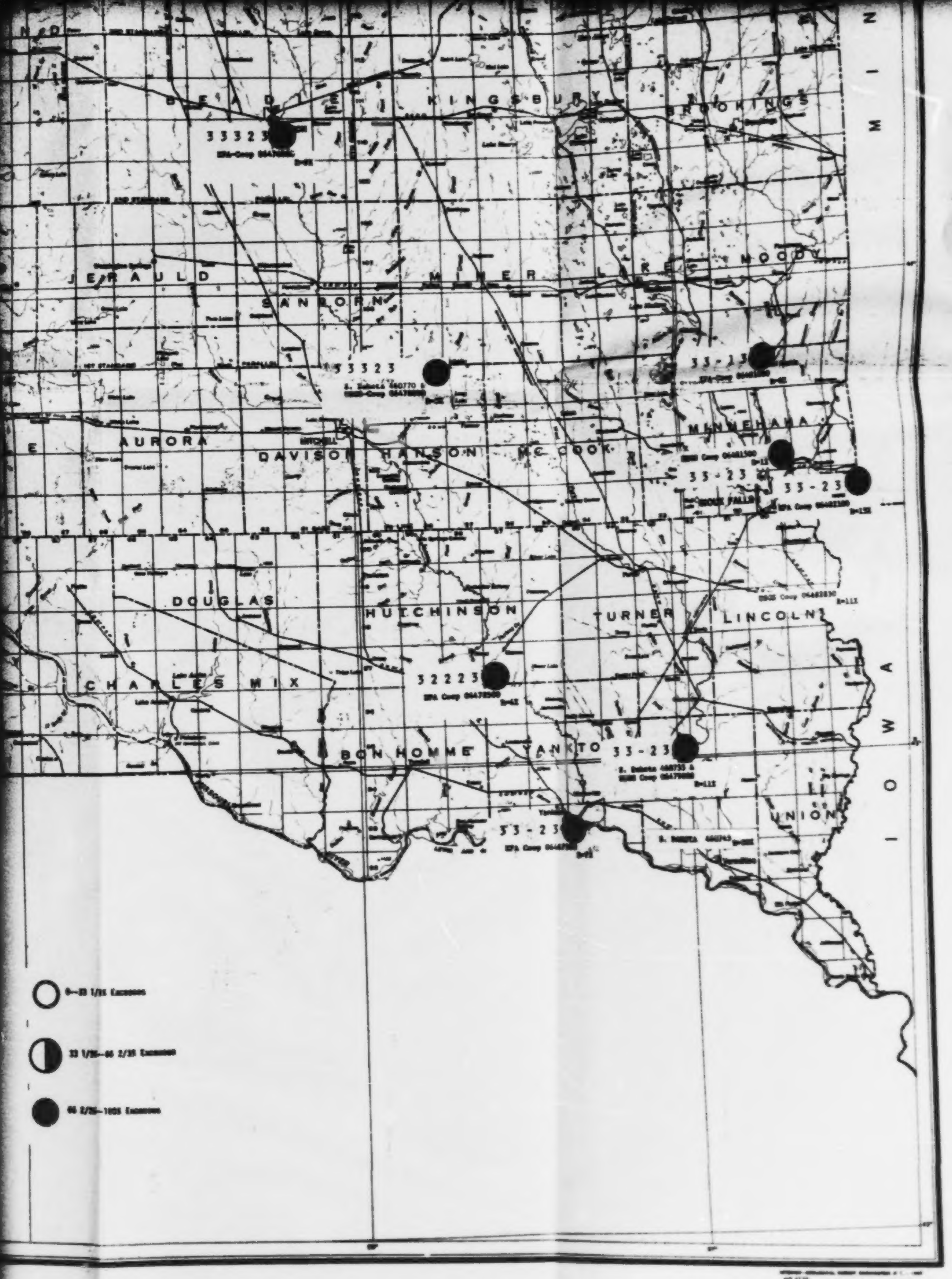

33133
S. DAKOTA
-3032
S. DAKOTA
B-22
USGS-Coop 06479100
B-172
MARSH
R
331101
S. DAKOTA 460710
B-12
BROWN
33113
S. Dakota 460700 &
USGS-Coop 05291000
B-41
GRANT
-2-23
USGS Coop 06473500
B-22
-3313
S. DAKOTA 466340
B-22
WATERTOWN
USGS Coop 06479510
B-172
SPINK
CLARK
DEUEL
HAMLIN
HAND
BEADLE
KINGSBURY
BROOKINGS
33323
ETA-Coop 06478000
B-22
MINNESOTA
MOODY
JERAULD
SANBORN
MINER
LAKE
33323
S. Dakota 460770 &
USGS-Coop 06478000
B-22
33-13
ETA-Coop 06481000
B-22
MINNEHAHA
USGS Coop 06481500
B-12
AURORA
MITCHELL
DAVISON
HANSON
MC COOK
-33-33
BRULE



W Y O M I N G
L A W R E N C E
P E N N I N
C U S T E R
L R I V E R
S H A N N O N
W A S H A B A U G H
B E N N E T T
J A C K S O N
H A A K O N
D E
S T A
Rapid City
Hot Springs
33323
32223
0-110
01112
---2-
3-33-
2-22-
-3333
33-13
33-22
32223
S. DAKOTA 460910
S. DAKOTA 460910
S. DAKOTA 460863
S. DAKOTA 460901
S. Dakota 460835 &
B=1E
B=0E
B=0E
B=1E
B=1E
B=0E
B=0E
B=10E
102°
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
STATE OF SOUTH DAKOTA
Scale 1:500,000
SOURCE DATA
BASE MAP
POPULATION KEY
SIOUX FALLS
RAPID CITY
Pierre
COMPILED IN 1961


STANLEY
HUGHES
S. DAKOTA 460850
BEADLE
3 3 3 2 3
BUFFALO
JERAULD
SANBORN
3 3 3 2 3
JONES
LYMAN
USGS Comp 06442630
S. DAKOTA 460825
MITCHELL
BRULE
AURORA
DAVISON
MELLETTE
TRIPP
DOUGLAS
TODD
GREGORY
CHARLES MIX
BON
N E B R A S K A
0--33 1/3% Excesses
33 1/3%--66 2/3% Excesses
66 2/3%--100% Excesses

E



BEADLE
KINGSBURY
BROOKINGS
JERAULD
SANBORN
MINER
LAKE
MOODY
AURORA
DAVISON
HANSON
McCOOK
MINNEHAHA
MITCHELL
SIOUX FALLS
DOUGLAS
HUTCHINSON
TURNER
LINCOLN
CHARLES MIX
BON HOMME
YANKTON
UNION
MINN
IOWA
33323
EPA-Coop
53323
S. Dakota 460770 &
USGS-Coop
33-13
EPA-Coop
USGS Coop 06481500
33-23
33-23
EPA Coop
USGS Coop 06482830
32223
EPA Coop 06478500
33-23
S. Dakota 460735 &
USGS Coop
33-23
EPA Coop
S. DAKOTA
0—33 1/3% Exceeded
33 1/3%—66 2/3% Exceeded
66 2/3%—100% Exceeded

SOUTH DAKOTA

E. Utah

1. State of Utah Water Quality Stations - Jordan River Stations

a. The TDS group was not rateable for any station on the Jordan River.

b. In the ORB group, little or no fecal coli. or DO values were noted.

c. In the ORB and Nutrient groups, all stations indicate more than 25% excesses.

d. Rejects noted a high incidence of total coli, zinc, and turbidity.

e. In general, reject values on the Jordan River (not associated with point sources) are high, ranging from 4% at the lower reach to 28% at the upper reach.

f. No station received a weighted value percentage of 100%.

2. Other State of Utah Water Quality Stations

a. Only three stations were rateable for the TDS group-- two stations on the Green River and one on the San Juan River.

b. No DO or total coli. data were collected outside of the Jordan River Basin.

c. In the Nutrient group, 8 of 11 stations noted excesses of 25% or more; however, nitrate was the only parameter monitored.

d. Rejects noted high incidence of fecal coli., turbidity, copper, zinc, and, to a lesser extent, BOD.

e. Reject percentages were modest to high, ranging from 3% to 12%.

f. These stations showed high weighting vlue percentages, with 14 of 18 stations in the 66-2/3 to 83% range.

g. No station received a weighted value percentage of 100%.

3. USGS Cooperative Stations

a. Only one station (Red Butte Creek near Salt Lake City) was rateable in the Hazardous Materials group.

b. In the ORB group, DO was the only parameter collected except for one station (Red Butte Creek near Salt Lake - monitored BOD).

c. The Nutrient group, with few exceptions, noted high excess values; however, two stations--one on the San Juan and one at the mouth of the Bear River--noted 0% excesses.

d. Rejects for the USGS-EPA Coop stations were, for the most part, in the TDS group; however, some zinc and pH rejects were noted.

e. Reject percentages for the USGS-EPA Coop stations, in general, were low except for the reject rating on the Price River (23%) and the Green River below the Price River confluence (22%).

f. No station received a weighted value percentage of 100%.

4. Overview

No duplication is evident in the location of Utah State stations and USGS-EPA Coop stations. No lake data were retrievable from STORET. Further emphasis on the Great Salt Lake, Utah Lake, and Lake Powell will be worthwhile in future surveys if these data are available.

UTAH

5. STATE DESCRIPTIONS

UTAH

NUMBER	STATE STATIONS
491001	Virgin River ab St. George WWT.
491003	Kanab Creek ab Kanab WWTP.
491006	North Fork, Virgin River, ab Zion WTP.
491101	San Juan River nr Montezuma.
491202	Green River ab Green River WWTP.
491211	Green River at Jensen.
491304	Colorado River ab Moab WWTP.
491416	Malad River ab Tremonton.
491425	Cub River ab Pet Milk Outfall.
491438	Chalk Creek above Coalville.
491442	McLeod Creek ab Park City WTP.
491601	Bear Creek ab Salem WWTP.
491607	Dry Creek ab Span Fork WWTP.
491634	Spring Creek ab Heber WWTP.
491703	Salt Creek ab Nephi WWTP.
491717	Sevier River ab Salina Creek.

NUMBER	EPA STATIONS
09234500	Green River nr Greendale.
09261000	Green River nr Jensen.
09302000	Duchesne River nr Randlett.
09306500	White River nr Watson.
09314500	Price River at Woodside.
09315000	Green River at Green River, Utah.
09328500	San Rafael River nr Green River, Utah.
09333500	Dirty Devil River nr Hite.
09337500	Escalante River nr Escalante, Utah.
09372000	McElmo Creek nr Colo.-Utah State Line.
09379500	San Juan River nr Bluff, Utah.
09413500	Virgin River at Littlefield, Ariz.
09415000	Virgin River at Littlefield, Ariz.
10020300	Bear River below reservoir nr Woodruff.
10026500	Bear River nr Randolph.
10041000	Thomas Fork nr Wyoming-Idaho State Line.
10090450	West Cache Canal at Cornish, Utah.
10092700	Bear River at Idaho-Utah State Line.
10095400	Cub River at Franklin.

NUMBER	JORDAN RIVER STATE STATIONS
491501	Jordan River below pumphouse (Utah Lake).
491502	" " at Bluffdale Road.
491506	" " at 9000 above Sandy.
491508	" " below Sandy WWTP.
491518	" " above Murray WWTP.
491524	" " above Jordan.
491536	" " at 2100 South.
491544	" " nr 17th North.
491545	" " at Cudahy Lane.
491548	State Canal.

NUMBER	USGS STATIONS
09163500	Colorado River nr Colorado-Utah Line.
09180000	Dolores River nr Cisco, Utah.
09229500	Henry's Fork at Linwood, Utah.
10011500	Bear River nr Utah-Wyoming Line.
10125600	Malad River nr Plymouth, Utah.
10125700	Bear River Duck Club Canal nr Bear River.
10126000	Bear River nr Corinne, Utah.
10136500	Weber River at Gateway, Utah.
10167500	Little Cottonwood Creek nr Salt Lake.
10168500	Big Cottonwood Creek nr Salt Lake.
10171000	Jordan River at 21st South at Salt Lake.
10172200	Red Butte Creek at Ft. Douglas.
10172550	Jordan River at 4th North at Salt Lake.
10191501	Sevier River below Piute Dam.
10191500	Sevier River below Piute Dam.

UTAH

6. REJECT DATA

More than ten excesses in any Parameter
reported as a range (←→) with X excesses
of Y values given in parentheses.
Ag = Silver Ba = Barium Mn = Manganese
Cd = Cadmium Cu = Copper CN = Cyanide
Zn = Zinc NH_3 = Ammonia NH_4 = Ammonium

REJECT LIST

UTAH - STATE STATIONS

Station #491001 28/207 = 12% Rejects

Date	Storet # & Desc.	Value
71/04/28	31616 Fecal Coli	9300/100 ML
71/10/13	" " "	" "
72/03/29	" " "	4300 "
68/07/16	00515 TDS	3270 mg/l
70/04/08	" "	2170 "
70/09/12	" "	3396 "
71/04/28	" "	2044 "
Throughout	00070 Turb	59 ←→ 1500 JTU (12 of 13)
71/09/02	01005 Ba	10,000 ugl
68/07/16	00720 CN	7.85 mg/l
68/11/20	01090 Zn	50 ug/l
69/07/29	" "	30 "
70/08/12	" "	10 "
71/04/28	" "	10 "
71/09/02	" "	20 "
71/09/02	01040 Cu	20 "
72/05/10	" "	10 "

Station #491003 11/198 = 5% Rejects

Date	Storet # & Desc.	Value
70/08/11	01040 Cu	30 ug/l
71/09/01	" "	" "
68/07/17	01090 Zn	10 "
68/11/19	" "	20 "
69/07/30	" "	80 "
71/09/01	31616 Fecal Coli	9300/100 ML
68/03/12	00070 Turb	730 JTU
69/07/30	" "	2250 "
69/12/02	" "	80 "
70/08/11	" "	180 "
71/09/01	" "	12,000 "

Station #491006 11/200 = 5% Rejects

Date	Storet # & Desc.	Value
68/03/12	01040 Cu	10 ug/l
70/08/11	" "	" "
71/09/01	" "	50 "
68/11/19	01090 Zn	30 "

Station #491006 (Cont.)

Date	Storet # & Desc.	Value
69/07/30	01090 Zn	30 ug/l
70/04/07	" "	10 "
68/03/12	00070 Turb	70 JTU
69/07/30	" "	75 "
70/04/07	" "	360 "
70/08/11	" "	78 "
71/09/01	" "	400 "

Station #491101 42/415 = 10% Rejects

Date	Storet # & Desc.	Value
68/01/23	01040 Cu	10 ug/l
68/07/09	" "	40 "
68/11/12	" "	40 "
70/10/08	" "	60 "
70/11/11	" "	10 "
71/05/05	" "	10 "
71/12/01	" "	10 "
72/02/23	" "	20 "
68/01/23	01090 Zn	20 ug/l
68/07/09	" "	40 "
68/11/12	" "	30 "
70/08/19	" "	10 "
71/07/28	" "	200 "
71/09/08	" "	10 "
72/04/05	" "	10 "
68/04/16	00720 CN	51.22
71/05/05	31616 Fecal Coli	23,000/100 ML
71/10/19	" " "	43,000/ " "
71/12/01	" " "	4300/ " "
72/01/11	" " "	4300/ " "
Throughout	00070 Turb	52 ←→ 6500 JTU (22 of 23)

Station #491202 38/408 = 9% Rejects

Date	Storet # & Desc.	Value
68/01/23	01040 Cu	10 ug/l
68/04/16	" "	20 "
68/05/27	" "	40 "
70/10/08	" "	40 "

Station #491202 (Cont.)

Date	Storet # & Desc.	Value
71/07/27	01040 Cu	20 ug/l
72/02/22	" "	20 "
72/05/16	" "	20 "
68/01/23	01090 Zn	20 "
68/04/16	" "	40 "
68/10/01	" "	10 "
68/11/12	" "	20 "
71/05/05	" "	20 "
71/06/15	" "	10 "
71/09/07	" "	60 "
72/02/22	" "	20 "
72/05/16	" "	30 "
Throughout	00070 Turb	55 ←→ 1700 JTU (22 of 26)

Station #491211 15/181 = 8% Rejects

Date	Storet # & Desc.	Value
68/03/05	01040 Cu	10 ug/l
68/11/13	" "	20 "
69/07/22	" "	30 "
72/07/25	" "	30 "
68/04/16	01090 Zn	10 ug/l
68/05/27	" "	10 "
68/10/02	" "	10 "
68/11/13	" "	20 "
69/07/22	" "	10 "
72/03/21	" "	20 "
68/03/05	00070 Turb	135 JTU
68/04/16	" "	250 "
68/05/27	" "	125 "
69/10/28	" "	200 "
70/03/31	" "	280 "

Station #491304 9/201 = 4% Rejects

Date	Storet # & Desc.	Value
68/11/13	01090 Zn	30 ug/l
71/05/05	" "	20 "
71/10/19	31616 Fecal Coli	4300/100 ML
68/03/05	00070 Turb	85 JTU

REJECT LIST

UTAH (Cont.) - STATE STATIONS

Station #491304 (Cont.)

Date	Storet # & Desc.	Value
68/07/09	00070 Turb	57 JTU
70/04/15	" "	450 "
70/08/19	" "	85 "
71/05/05	" "	55 "
71/09/08	" "	275 "

Station #491416 33/199 = 16% Rejects

68/05/08	00515 TDS	3062 mg/1
68/09/18	" "	2818 "
69/10/01	" "	2500 "
70/02/04	" "	2370 "
70/06/10	" "	3120 "
70/10/21	" "	2326 "
71/02/24	" "	2190 "
71/06/30	" "	3122 "
68/09/18	01040 Cu	100 ug/1
69/10/01	" "	20 "
70/02/04	" "	10 "
70/06/10	" "	10 "
70/10/21	" "	30 "
68/05/08	01090 Zn	10 "
68/09/18	" "	20 "
69/10/01	" "	10 "
70/10/21	" "	15 "
71/02/24	" "	20 "
71/06/30	" "	20 "
68/01/10	00310 BOD	73 mg/1
68/10/30	" "	58 "
68/12/10	" "	69 "
69/11/13	" "	52 "
70/02/04	" "	59 "
70/10/21	" "	73 "
71/02/24	" "	70 "
72/01/25	" "	25 "

Station #491416 (Cont.)

Date	Storet # & Desc.	Value
71/09/22	31616 Fecal Coli	23,000/100 ML
72/01/26	" " "	39,000/ " "
69/10/01	00070 Turb	80 JTU
70/02/04	" "	55 "
70/10/21	" "	185 "
71/02/24	" "	65 "

Station #491425 17/194 = 9% Rejects

68/09/11	01040 Cu	10 ug/1
68/05/14	01090 Zn	10 "
68/09/11	" "	10 "
69/08/20	" "	20 "
69/09/24	" "	40 "
70/10/14	" "	20 "
71/06/22	" "	10 "
70/10/14	00310 BOD	27 mg/1
70/11/23	" "	41 "
70/12/22	" "	105 "
71/10/26	" "	33 "
71/12/14	" "	102 "
72/02/29	" "	32 "
71/08/10	31616 Fecal Coli	4300/100 ML
71/10/25	" " "	430,000/ " "
69/05/20	00070 Turb	60 JTU
70/06/03	" "	120 "

Station #491438 7/227 = 3% Rejects

68/05/14	01040 Cu	20 ug/1
70/02/10	" "	10 "
70/06/05	" "	40 "
68/05/14	01090 Zn	10 "
68/09/17	" "	20 "
69/08/05	" "	50 "
70/06/05	" "	40 "

Station #491442 9/205 = 5% Rejects

Date	Storet # & Desc.	Value
70/02/10	01040 Cu	10 ug/1
68/05/14	01090 Zn	40 "
68/09/17	" "	40 "
69/08/05	" "	20 "
69/12/10	" "	10 "
70/02/10	" "	20 "
70/11/04	" "	10 "
71/07/13	" "	30 "
72/02/15	" "	20 "

Station #491601 11/183 = 6% Rejects

68/03/19	01040 Cu	10 ug/1
69/09/30	" "	60 "
71/07/01	" "	20 "
68/07/22	01090 Zn	10 "
[illegible]	" "	10 "
69/09/30	" "	30 "
[illegible]	" "	10 "
71/07/01	" "	10 "
71/11/03	" "	20 "
71/07/01	31616 Fecal Coli	23,000/100 ML
[illegible]	" " "	43,000/ " "

Station #[illegible] 12/220 = 6% Rejects

[illegible]	01040 Cu	20 ug/1
68/12/03	" "	10 "
69/09/30	" "	30 "
68/07/22	01090 Zn	10 "
68/12/03	" "	10 "
69/09/30	" "	10 "
70/12/01	" "	10 "
71/02/23	" "	10 "
71/04/06	31616 Fecal Coli	4300/100 ML
71/05/18	" " "	4300/ " "
71/07/01	" " "	4300/ " "
71/12/07	" " "	4300/ " "

UTAH (Cont.) - STATE STATIONS

Station #491634 6/157 = 4% Rejects

Date	Storet # & Desc.	Value
70/03/05	01040 Cu	20 ug/1
71/04/21	" "	20 "
71/08/25	" "	10 "
68/05/28	01090 Zn	40 "
68/10/03	" "	10 "
72/02/09	31616 Fecal Coli	9300/100 ML

Station #491703 6/208 = 3% Rejects

Date	Storet # & Desc.	Value
71/03/02	01040 Cu	20 ug/1
68/07/16	01090 Zn	20 "
68/11/18	" "	10 "
69/07/30	" "	40 "
70/08/12	" "	10 "
71/03/02	" "	10 "

Station #491717 16/197 = 8% Rejects

Date	Storet # & Desc.	Value
71/01/05	01040 Cu	30 ug/1
71/09/01	" "	30 "
68/03/12	01090 Zn	50 "
68/11/18	" "	30 "
69/07/29	" "	30 "
70/04/08	" "	10 "
71/01/06	" "	60 "
71/03/01	" "	10 "
72/01/05	" "	10 "
71/03/17	31616 Fecal Coli	4300/100 ML
71/06/09	" " "	15,000/ " "
71/07/21	" " "	4300/ " "
71/09/02	" " "	9300/ " "
71/10/12	" " "	4300/ " "
72/05/10	" " "	93,000/ " "
69/07/29	00070 Turb	140 JTU

REJECT LIST

UTAH - JORDAN RIVER STATIONS

Date	Storet # & Desc.	Value
Station #491501		**1/110 = 1% Rejects**
70/03/30	31505 Tot Coli	2,300,000/100 ML
Station #491502		**8/285 = 3% Rejects**
70/05/11	01075 Ag	5 ug/1
68/03/13	01090 Zn	20 "
72/05/10	" "	20 "
68/11/05	31505 Tot Coli	23,000/100 ML
70/01/05	" " "	210,000/ " "
70/03/30	" " "	43,000/ " "
70/11/03	" " "	23,000/ " "
72/05/10	00070 Turb	60 JTU
Station #491506		**24/292 = 9% Rejects**
72/05/10	01025 Cd	45 ug/1
68/08/13	01090 Zn	20 "
70/09/14	" "	20 "
71/02/09	" "	20 "
Throughout	31505 Tot Coli	23,000 ←→ 93,000/100 ML (19 of 35)
69/07/08	00070 Turb	80 JTU
Station #491508		**22/117 = 19% Rejects**
Throughout	31505 Tot Coli	23,000 ←→ 1,500,000/100ML (22 of 34)
Station #491518		**35/277 = 13% Rejects**
68/08/14	01025 Cd	20.00 ug/1
68/04/17	01040 Cu	30.00 "
71/06/03	" "	90.00 "
70/05/13	01055 Mn	420.00 "
70/05/13	01075 Ag	388.00 "
68/04/17	01090 Zn	40.00 "
68/08/14	" "	20.00 "
70/05/13	" "	19.00 "
70/09/14	" "	40.00 "

Station #491518 (Cont.)

Date	Storet # & Desc.	Value
71/06/08	01090 Zn	30.00 ug/1
68/08/07	00720 CN	15.31 mg/1
Throughout	31505 Tot Coli	23,000 ←→ 430,000/100ML (22 of 34)
69/08/20	00070 Turb	65 JTU
68/08/07	00400 pH	10
Station #491524		**29/129 = 22% Rejects**
71/06/08	01040 Cu	40 ug/1
71/06/08	01090 Zn	60 "
Throughout	31505 Tot Coli	24,000 ←→ 930,000/100ML (27 of 28)
Station #491536		**44/258 = 16% Rejects**
70/05/18	01040 Cu	25 ug/1
68/08/02	01090 Zn	20 "
71/02/23	" "	50 "
72/08/23	" "	138 "
72/07/26	71845 NH_4	1.48 mg/1
Throughout	31505 Tot Coli	23,000 ←→ 2,400,000/100ML (37 of 40)
70/01/07	00070 Turb	55 JTU
70/05/18	" "	75 "
Station #491544		**33/118 = 28% Rejects**
Throughout	31505 Tot Coli	23,000 ←→ 23.000,000/100ML (33 of 34)
Station #491545		**39/321 = 12% Rejects**
72/05/10	01025 Cd	15 ug/1
68/08/20	01090 Zn	20 "
69/08/26	" "	100 "
71/02/23	" "	30 "
72/01/19	" "	30 "
70/11/12	00310 BOD	77 mg/1

Station #491545 (Cont.)

Date	Storet # & Desc.	Value
Throughout	31505 Tot Coli	23,000 ←→ 930,000/100ML (31 of 39)
69/07/11	00070 Turb	70 JTU
70/05/18	" "	57 "
Station #491548		**19/161 = 12% Rejects**
72/03/01	31616 Fecal Coli	9200/100ML
72/05/25	" " "	4300/ " "
68/08/20	00070 Turb	80 JTU
70/05/18	" "	65 "
68/08/20	01090 Zn	20 ug/1
69/08/26	" "	80 "
Throughout	31505 Tot Coli	23,000 ←→ 230,000/100ML (13 of 18)
Station #491562		**4/15 = 27% Rejects**
72/01/17	31505 Tot Coli	240,000/100ML
72/02/28	" " "	93,000/ " "
72/04/03	" " "	150,000/ " "

REJECT LIST

UTAH - USGS COOP STATIONS

Station #09180000 18/254 = 7% Rejects
Throughout 70300 TDS 2170 ⟷ 5210 mg/1
(16 of 40)
71/08/20 01090 Zn 30 ug/1
71/03/17 00400 pH 10.3

Station #10125600 4/17 = 23% Rejects
68/05/04 70300 TDS 4120 mg/1
68/06/17 " " 2310 "
68/07/22 " " 5440 "
68/07/27 " " 5550 "

Station #10125700 1/12 = 8% Rejects
68/05/14 70300 TDS 2370 mg/1

Station #10126000 2/15 = 13% Rejects
68/05/14 70300 TDS 2450 mg/1
68/07/22 " " 2700 "

Station #10167500 1/16 = 7% Rejects
70/10/08 01090 Zn 73 ug/1

Station #10168500 1/16 = 7% Rejects
70/10/08 01090 Zn 87 ug/1

Station #10171000 1/7 = 13% Rejects
70/10/18 01090 Zn 20 ug/1

Station #1017[illegible] 1/24 = 1% Rejects
[illegible] 00400 pH 2.9

Station #10172550 1/7 = 13% Rejects
70/10/08 01090 Zn 15 ug/1

UTAH - EPA COOP STATIONS

Station #09314500 82/354 = 23% Rejects
Throughout 70300 TDS 2140 ⟷ 5640 mg/1
(82 of 122)

Station #09328500 82/366 = 22% Rejects
Throughout 70300 TDS 2230 ⟷ 4320 mg/1
(82 of 121)

Station #09333500 1/50 = 2% Rejects
70/07/28 70300 TDS 2900 mg/1

Station #09337500 1/40 = 3% Rejects
69/08/05 70300 TDS 3240 mg/1

Station #09372000 3/48 = 6% Rejects
69/08/27 70300 TDS 2180 mg/1
69/12/19 " " 3350 "
70/05/13 " " 2700 "

Station #09413500 3/39 = 8% Rejects
70/03/18 70300 TDS 2650 mg/1
70/08/26 " " 3270 "
70/11/03 " " 2180 "

Station #09415000 2/87 = 2% Rejects
69/10/02 70300 TDS 2640 mg/1
70/11/04 " " 2370 "

COMBINED STATION REJECTS LIST

UTAH

Stations	Total Rejects
Utah #491202	38/408
EPA Coop #09315000	0/295
	38/704 = 5%
USGS #10191501	0/108
USGS #10191500	0/ 32
	0/140 = 0%

UTAH

7. DATA REDUCTION FORMS

UTAH JORDAN RIVER BASIN STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
491501	1/68-8/72	0	0	-	0	0	-	22	60**	37	3	50	6	0	0	-	- - 3 1 -	x	x	
491502	1/68-8/72	7	7	100	7	114	6	31	**69*	45	10	73	14	20	22	91	- 1 3 2 3	22	33	67
491506	1/68-8/72	8	8	100	7	116	6	48	73*	66	8	73	11	21	22	95	- 1 3 2 3	22	33	67
491508	1/68-8/72	-	-	-	-	-	-	54	**61*	89	1	56	1	-	-	-	- - 3 1 -	x	x	
491518	1/68-8/72	8	9	89	17	109	15	55	71*	77	10	69	14	19	19	100	- 2 3 2 3	24	33	73
491524	1/68-7/72	1	1	100	2	10	20	58	63*	92	1	53	1	2	2	100	- 2 3 1 -	20	27	74
491536	1/68-8/72	0	0	-	11	109	10	73	74*	99	*7	54	13	21	21	100	- 2 3 2 3	27	33	82
491544	1/68-7/72	-	-	-	-	-	-	67	69*	97	0	49	0	-	-	-	- - 3 0 -	x	x	
491545	1/68-8/72	7	8	88	12	132	9	79	83	95	10	74	14	23	24	96	- 1 3 2 3	22	33	67
491548	3/60-7/72	5	5	-	5	69	7	38	40	95	7	33	21	14	14	100	- 1 3 2 3	22	33	67
491562	1/72-8/72	0	0	-	0	0	-	8	9	88	0	6	0	0	0	0	- - - - -	x	x	

*No Fecal Coli.
**No D. O.

UTAH STATE STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Ratable	Rated Weight	Max. Weight	%
491001	1/68-5/72	8	8	100	13	82	16	9	44*	20	13	64	20	9	9*	100	- 2 2 2 -	18	27	67
491003	1/68-5/72	8	8	100	6	80	8	4	39*	16	11	62	18	3	9*	78	- 1 2 2 -	13	27	48
491006	1/68-5/72	1	8	12	10	84	12	4	38*	11	11	61	18	3	9*	33	- 2 2 2 -	18	27	66
491101	1/68-5/72	11	21	52	19	225	8	11	47*	23	27	97	28	25	25*	100	3 1 2 3 3	23	36	64
491202	1/68-4/72	16	23	73	22	217	10	4	46*	9	30	95	32	26	27*	96	3 2 1 3 3	25	36	69
491211	1/68-5/72	6	10	60	10	54	19	5	41*	12	7	66	11	10	10*	100	3 2 2 2 3	27	36	75
491304	1/68-5/72	7	7	100	7	66	11	14	47*	30	3	73	7	8	8*	100	- 2 3 1 -	20	27	74
491416	1/68-4/72	8	8	100	16	89	18	24	36*	67	7	57	12	6	9*	67	- 2 3 2 -	21	27	78
491425	2/68-4/72	1	8	12	7	67	10	22	42*	51	6	69	9	7	8*	86	- 2 3 1 -	20	27	74
491442	1/68-5/72	7	7	100	12	75	16	5	42*	12	0	72	0	7	9	78	- 2 2 0 -	16	27	59
491438	1/68-4/72	0	8	0	7	97	7	8	41*	20	1	72	2	9	9*	100	- 1 2 1 -	12	27	42
491601	1/68-4/72	1	8	-	0	54	0	13	41*	31	6	70	9	10	10*	100	- 0 3 1 -	10	27	37

*No D.O or Total Coli.

*Nitrate Only

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–)=Not Rateable	Rated Weight	Max Weight	%
491607	2/68-4/72	8	8	100	11	95	12	13	44*	29	7	63	11	10	10*	100	- 1 3 1 3	18	33	55
491634	5/68-5/72	0	7	0	6	63	10	3	28*	11	0	51	0	7	8*	87	- 2 2 0 -	16	27	59
491703	1/68-5/72	7	8	88	7	65	11	8	46*	17	6	76	8	6	9*	67	- 2 2 1 -	17	27	63
[illegible]	1/68-5/72	5	6	83	10	65	15	11	46*	25	6	73	8	7	7*	100	- 2 3 1 -	20	27	74

*No D.O. or Total Coli.

*Nitrate Only

UTAH USGS/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORG WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–) Not Exceeded	Rated Weight	Max Weight	
USGS 09163500	Inactive 1/68-2/70	30	32	94	–	–	–	–	–	–	0	39	0	13	15	87	3 - - 0 3	9	12	75
" 09180000	10/68-7/72	32	40	80	3	5	50	0	23*	0	11	135	8	27	51	64	3 - 0 1 3	10	12	83
" 09229500	1/68-8/72	72	83	87	–	–	–	–	–	–	10	202	5	3	75	4	3 - - 1 1	6	12	50
" 10011500	1/68-5/72	0	8	0	–	–	–	0	*3	–	0	30	0	2	9	11	- - - 0 -	x	x	
" 10136500	11/68-6/72	0	21	0	0	1	0	–	–	–	0	48	0	11	30	33	0 - - 0 3	6	12	50
" 10172200	2/68-7/72	0	18	0	4	52	7	14	23	60	3	87	3	6	34	18	0 1 3 1 3	17	33	51
" 10191501	10/68-9/71	0	20	0	0	2	–	–	–	–	–	55	2	6	31	19	0 - - 1 2	5	12	42
" 10191500	5/71-7/72	–	–	–	–	–	–	–	–		0	16	0	1	16	6	- - - 0 1	x	x	

. *D. O. Only

UTAH EPA/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	I TDS Values	I TDS %	II HAZ. MATERIALS WEIGHT = 5 Excesses	II Values	II %	III ORB WEIGHT = 3 Excesses	III Values	III %	IV FIELD WEIGHT = 1 Excesses	IV Values	IV %	V NUTRIENT WEIGHT = 2 Excesses	V Values	V %	RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% + Dash (—)=Not Ratable	WEIGHTED RATING Rated Weight	Max Weight	%
USGS-EPA		3			-			0			0			7				4		
09224500	9/69-6/72		3	100		-	-		22*	0		84	0		46	15	- - 0 0 2		18	22
" "	Dropped	15			-			0			2			13				10		
09261000	1/68-5/72		59	25		-	-		24*	0		195	1		19	68	3 - 0 1 3		21	48
" "	Dropped	82			-			0			10			1				6		
09302000	1/68-5/72		100	82		-	-		20*	0		212	5		18	6	3 - 0 1 1		21	29
		68			1			0			5			3				8		
09306500	1/68-5/72		132	52		2	-		23*	0		241	2		22	14	3 - 0 1 2		21	38
	Dropped	133			1			0			4			12				10		
09314500	1/68-5/72		133	100		2	50		7*	0		194	3		18	67	3 - - 1 3		21	48
" "	Dropped	73			-			0			15			26				10		
09315000	1/68-5/72		107	68		-	-		19*	0		131	12		39	67	3 - 0 1 3		21	48
" "		121			1			0			0			11				9		
09328500	1/68-5/72		121	100		2	-		11*	0		192	0		40	38	3 - 0 0 3		21	43
" "	Dropped	3			-			0			3			3				x		
09333500	10/69-4/72		3	100		1	-		6*	0		23	14		11	27	- - - 2 3		x	
" "	Dropped	5			-			0			1			0				x		
09337500	8/69-12/71		6	83		-	-		4*	0		25	15		5	0	- - - 2 -		x	
" "	Dropped	0			-			0			20			0				2		
09379500	1/68-6/72		4	0		-	-		20*	0		128	16		18	0	- - 0 2 0		16	11
" "		5			-			0			5			5				x		
09413500	10/69-3/72		5	100		-	-		4*	0		23	23		7	-	- - - 3 -		x	
" "	Dropped	3			-			0			5			0				x		
09415000	1/68-5/72		3	100		-	-		12*	0		71	20		3	0	- - 0 2 -		x	

*D.O. Only

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	Rated Weight	Max. Weight	%
USGS-EPA 10020300	Dropped 1/68-5/72	0	10	0	-	-	--	0	4*	0	1	34	3	0	5	0	3 - - 1 -	x	x	
" " 10026500	1/68-5/72	1	8	12	-	-	-	0	4*	0	5	28	7	0	9	0	- - - 1 -	x	x	
" " 10041000	Dropped 1/68-5/72	5	8	63	-	-	-	0	5*	0	0	28	0	1	7	14	- - - 0 -	x	x	
" " 10090450	Dropped 1/68-6/72	4	5	80	1	1	100	0	5*	0	1	24	4	0	1	0	- - - 1 -	x	x	
" " 10092700	Inactive 1/68-5/71	6	11	55	-	1	-	0	16*	0	1	24	3	0	1	0	3 - 0 1 -	x	x	
" " 10095400	Dropped 11/70-2/72	0	1	0	-	-	-	0	4	0	0	20	0	4	6	67	- - - 0 -	4	14	2
" " 10126100	9/69-6/72	11	13	85	-	-	-	0	8	0	5	31	12	0	17	0	3 - - 2 0	[illegible]	4	
" " 10152000	New 7/72-																- - - - -			
" " 10163300	New 7/72-																- - - - -			

*D.O. Only

UTAH MBINED STATIONS

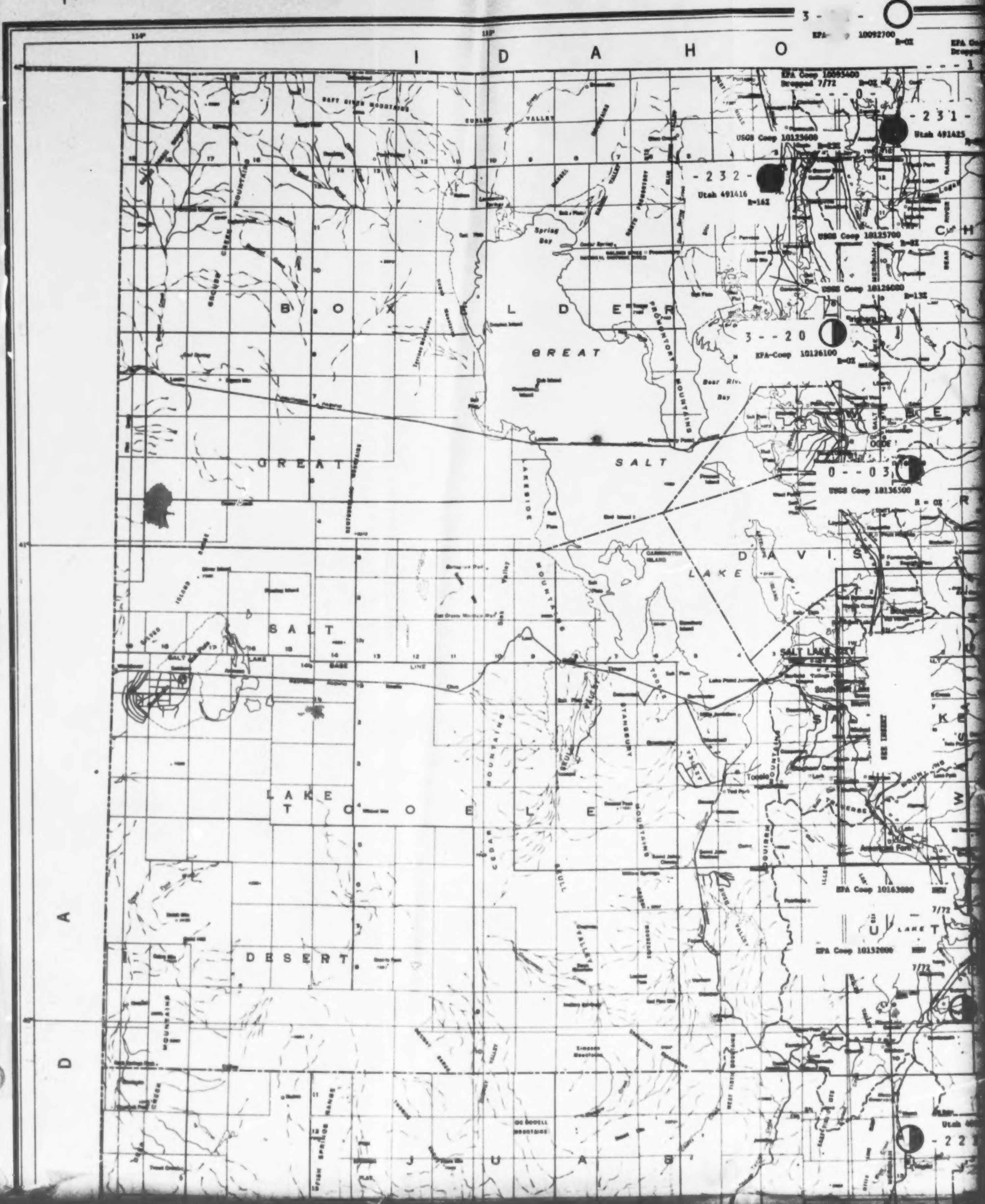
REGION VIII
WATER QUALITY ASSESSMENT

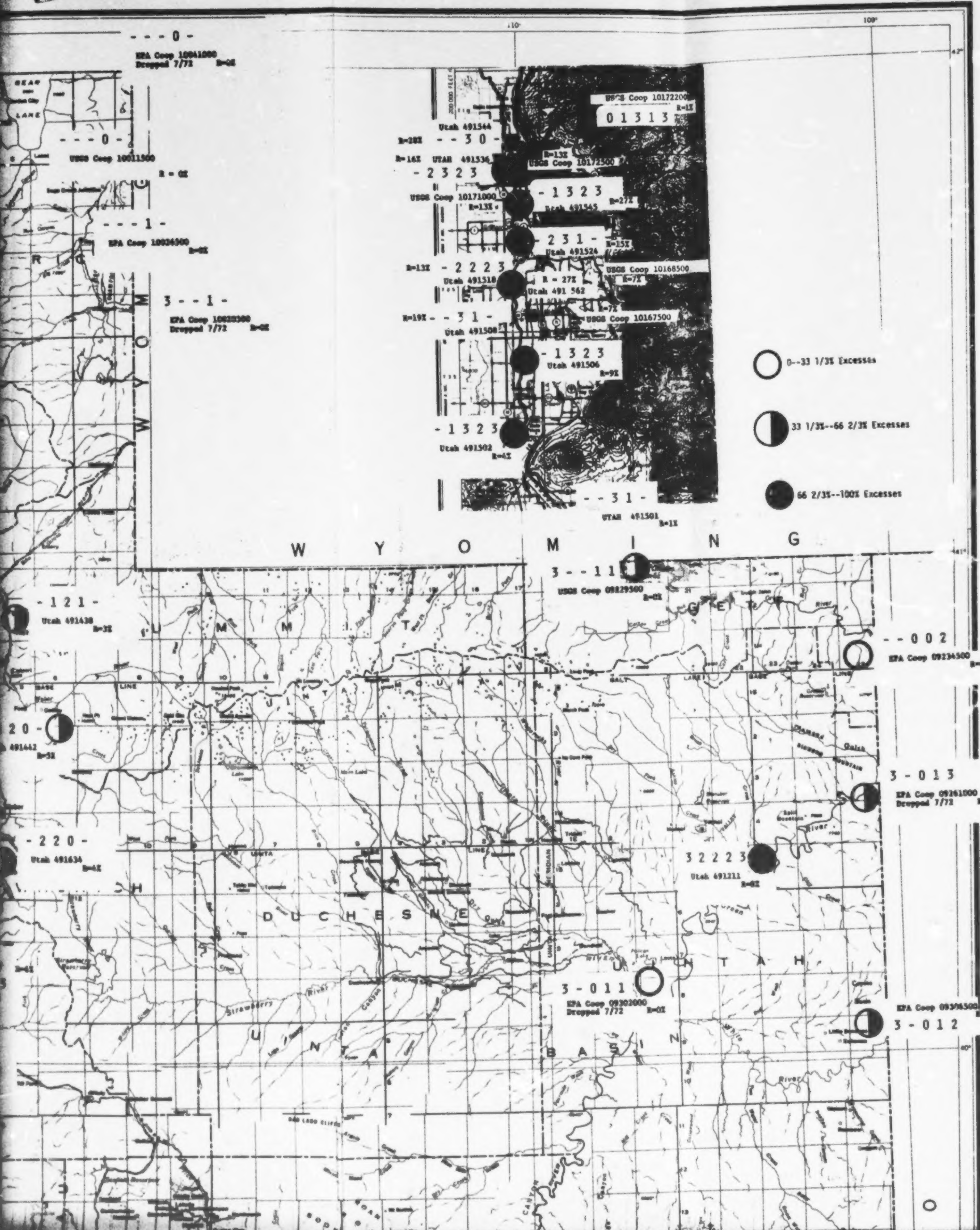
PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATINGS		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(--)=Not Rateable	Rated Weight	Max Weight	%
Utah 491202	1/68-4/72	89			*22			*4			45			52				24		
EPA-Coop 09315000	1/68-5/72		130	68		*217	10		65	6		226	20		66	80	3 2 1 2 3		36	66
USGS-Coop 10191501	10/68-9/71	0			0			-			1			7				5		
USGS-Coop 10191500	5/71-7/72		20	0		2	0		-	-		71	1		37	19	0 - - 1 2		12	42

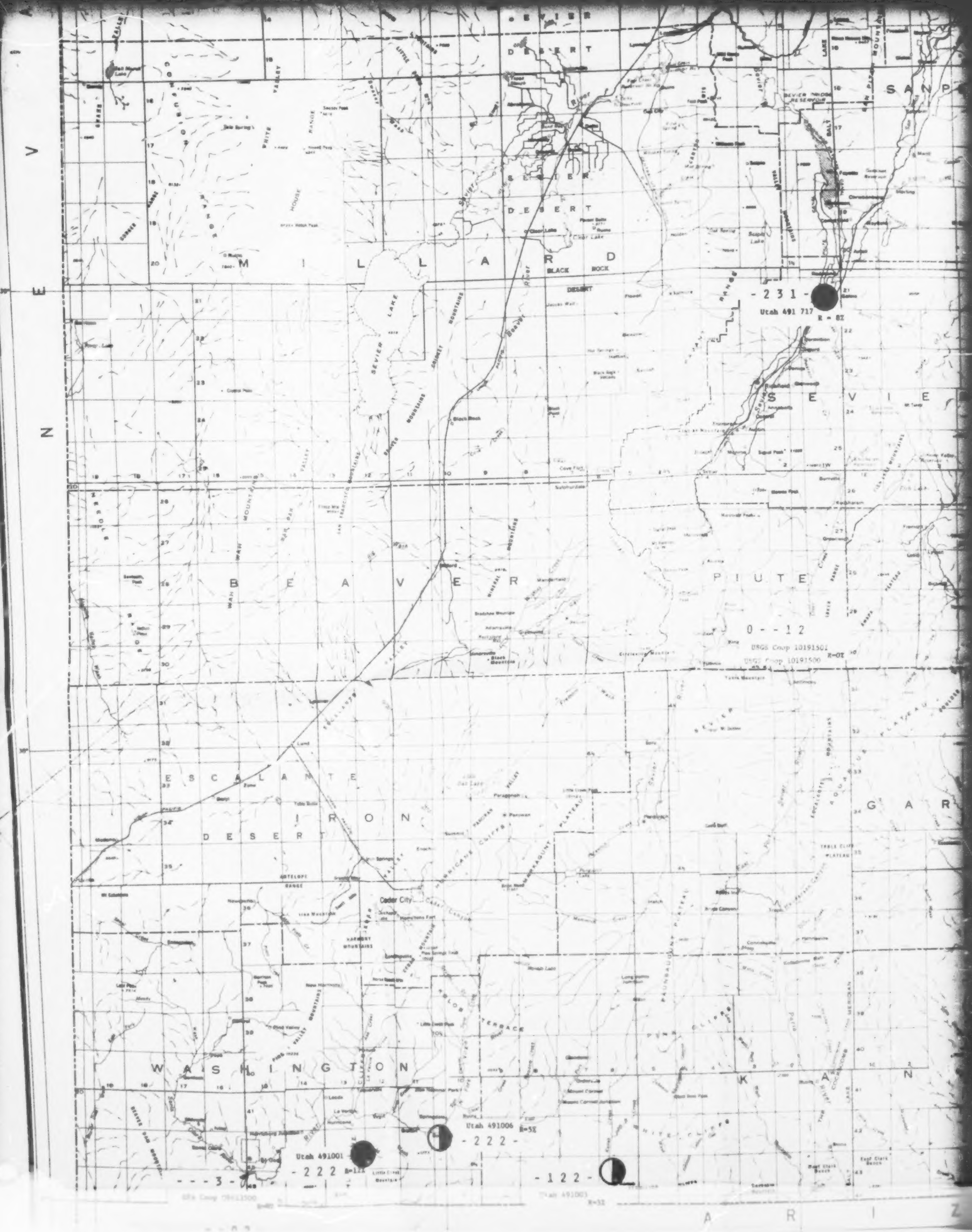
*Utah Only

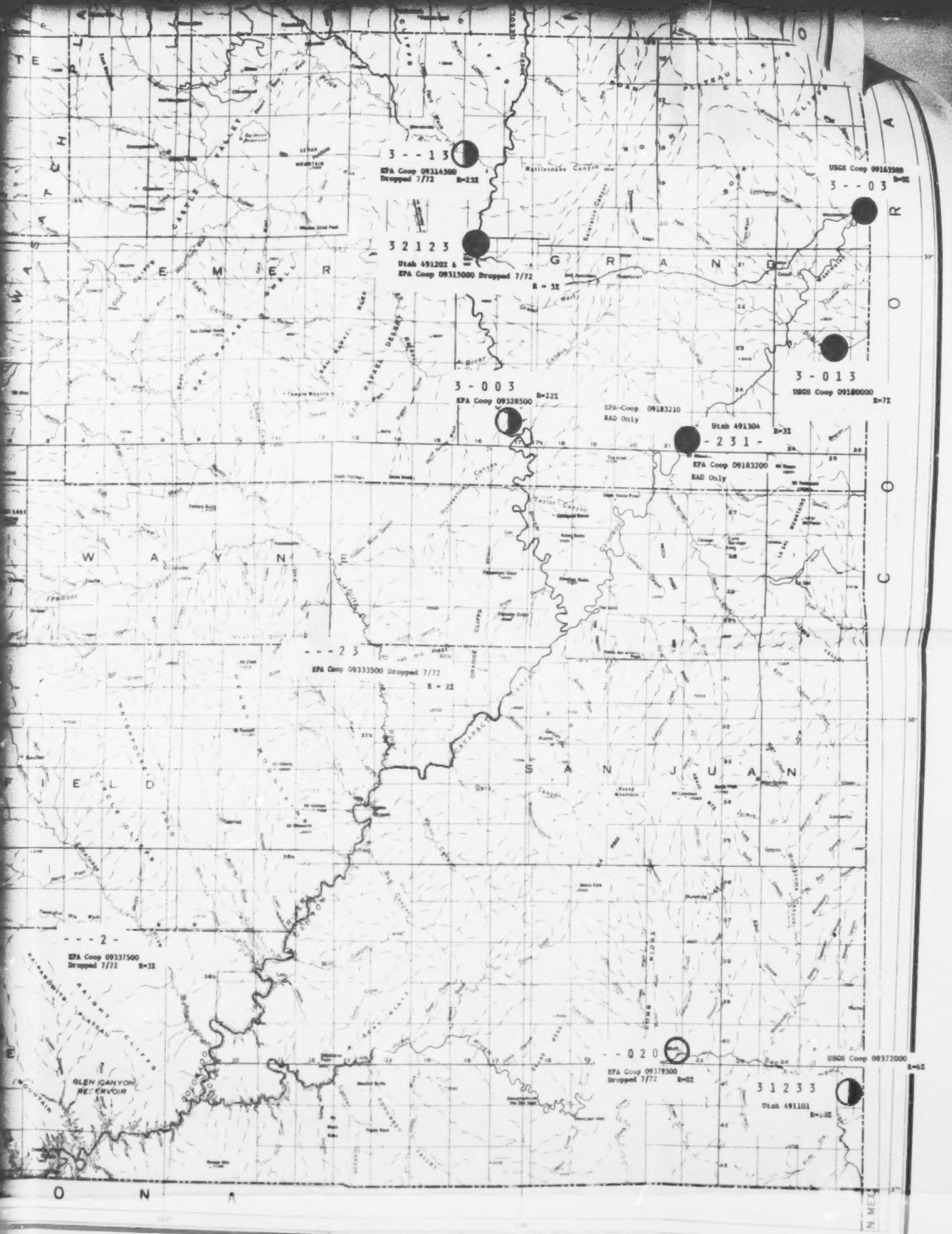
A


IDAHO
3 - - -
EPA- 10092700
R-0%
EPA Co
Dropped
- - - 1
EPA Coop 10093400
Dropped 7/72
R-0%
- - - 0 -
- 2 3 1 -
Utah 491425
USGS Coop 10123600
R-23%
- 2 3 2 -
Utah 491416
R-16%
USGS Coop 10125700
R-0%
USGS Coop 10126000
R-13%
3 - - 2 0
EPA-Coop 10126100
R-0%
0 - - 0 3
USGS Coop 10136500
R = 0%
BOX ELDER
GREAT SALT LAKE
GREAT SALT LAKE DESERT
SALT LAKE CITY
SALT LAKE
DAVIS
WEBER
TOOELE
Tooele
UTAH LAKE
EPA Coop 10163000
7/72
EPA Coop 10152000
7/72
JUAB
WASATCH
CACHE
Promontory Mountains
Bear River Bay
Spring Bay
Carrington Island
Lakeside
Stansbury
Cedar Mountains
Ogden
South Salt Lake
American Fork
Utah 4
- 2 2
NEVADA
114°
113°
42°
41°
40°



110°
109°
42°
41°
40°
- - - 0 -
EPA Coop 100A1000
Dropped 7/72 R=0%
BEAR LAKE
- - - 0 -
USGS Coop 10011500
R = 0%
- - - 1 -
EPA Coop 10026300
R=0%
3 - - 1 -
EPA Coop 10020300
Dropped 7/72 R=0%
USGS Coop 10172200
R=1%
0 1 3 1 3
Utah 491544
R=28% - - 3 0 -
R=16% UTAH 491536
- 2 3 2 3
R=13%
USGS Coop 10172500
USGS Coop 10171000
R=13%
- 1 3 2 3
Utah 491545
R=27%
2 3 1 -
Utah 491524
R=15%
R=13% - 2 2 2 3
Utah 491518
R = 27%
Utah 491 562
USGS Coop 10168500
R=7%
R=19% - - 3 1 -
Utah 491508
R=7%
USGS Coop 10167500
- 1 3 2 3
Utah 491506
R=9%
- 1 3 2 3
Utah 491502
R=4%
- - 3 1 -
UTAH 491501
R=1%
0--33 1/3% Excesses
33 1/3%--66 2/3% Excesses
66 2/3%--100% Excesses
W Y O M I N G
3 - - 1 1
USGS Coop 09229500
R=0%
- 1 2 1 -
Utah 491438
R=3%
- - 0 0 2
EPA Coop 09234500
R=0%
2 0 -
491442
R=5%
3 - 0 1 3
EPA Coop 09261000
Dropped 7/72 R=0%
- 2 2 0 -
Utah 491634
R=4%
3 2 2 2 3
Utah 491211
R=0%
R=4%
3 - 0 1 1
EPA Coop 09302000
Dropped 7/72 R=0%
EPA Coop 09306500
R=0%
3 - 0 1 2
U I N T A M O U N T A I N S
D U C H E S N E
U I N T A H
U I N T A B A S I N
Strawberry River
Diamond Gulch
White River
Green River
Duchesne River
Split Mountain
O


N E V
S E V I E R
D E S E R T
S E V I E R
D E S E R T
M I L L A R D
BLACK ROCK
DESERT
SANP
SEVIER LAKE
S E V I E
B E A V E R
P I U T E
E S C A L A N T E
I R O N
D E S E R T
Cedar City
HARMONY MOUNTAINS
W A S H I N G T O N
K A N
G A R
A R I Z
TABLE CLIFF PLATEAU
TERRACE
Beaver
Milford
Lund
Modena
Zion National Park
Springdale
Leeds
La Verkin
Hurricane
Virgin
Little Creek Mountain
Mount Carmel
Mount Carmel Junction
Salina
Richfield
Monroe
Marysvale
Panguitch
Paragonah
Parowan
Enoch
Summit
Kanarraville
New Harmony
Pine Valley
Black Rock
Cove Fort
Sulphurdale
Minersville
Adamsville
Greenville
Circleville
Kingston
Antimony
Tropic
Henrieville
Cannonville
Hatch
Alton
Glendale
Orderville
Fillmore
Kanosh
Meadow
Holden
Scipio
Delta
Clear Lake
Gunnison
Centerfield
Aurora
Redmond
Sigurd
Elsinore
Joseph
Sevier
Koosharem
Fremont
Loa
Bicknell
-231-
Utah 491717
R = 8%
0--12
USGS Coop 10191501
R=0%
USGS Coop 10191500
Utah 491006
R=5%
-222-
Utah 491001
-222
R=12%
---3-
-122-
Utah 491003
R=5%


3 - - 1 3
EPA Coop 09314500
Dropped 7/72 R=23%
3 2 1 2 3
Utah 491202 &
EPA Coop 09315000 Dropped 7/72
R = 3%
USGS Coop 09163500
3 - - 0 3
R=0%
3 - 0 1 3
USGS Coop 09180000
R=7%
3 - 0 0 3
EPA Coop 09328500
R=23%
EPA-Coop 09183210
RAD Only
Utah 491304
R=3%
- 2 3 1 -
EPA Coop 09183200
RAD Only
- - - 2 3
EPA Coop 09333500 Dropped 7/72
R = 2%
- - - 2 -
EPA Coop 09337500
Dropped 7/72 R=3%
- - 0 2 0
EPA Coop 09379500
Dropped 7/72 R=0%
USGS Coop 09372000
R=6%
3 1 2 3 3
Utah 491101
R=10%
EMERY
GRAND
WAYNE
SAN JUAN
GARFIELD
COLORADO
ARIZONA
Rattlesnake Canyon
Taylor Canyon
GLEN CANYON RESERVOIR
UTAH

F. Wyoming

1. State of Wyoming Water Quality Stations

No water quality data are available as yet in STORET for the limited data collected by the State of Wyoming.

2. USGS Cooperative Stations

a. Only 5 of the 50 rateable stations for Wyoming USGS Coop stations contained enough data sufficient for rating in the Hazardous Materials group.

b. Eleven of 50 stations collected data in the ORB group.

c. In the Nutrient group, only 17 of 43 stations rated had excesses greater than 25%.

d. Six rateable stations noted 0% excesses.

e. For the most part, reject percentages were low throughout the State, with rejects occurring mainly in the TDS group with lesser rejects for selenium, zinc, and ORB. Some high reject percentages were noted on Sage Creek between Deaver and Lovell (15% and 16%), and Bitter Creek near the mouth at Green River (16%), as well as the South Fork of the Powell River near Kaycee (25% - TDS only), the Salt Creek near Sussex (100% - TDS only), Beaver Creek near Newcastle (80% - TDS only), and, the North Platte near Casper (17% - mostly coliform).

f. Nineteen of 54 stations had a weighted value percentage between 0 - 33-1/3%, whereas 18 were in the 66-2/3 to 100% category.

g. Three stations--the Bitter Creek near Garland, Whistle Creek near Garland, and the Shoshone River near Lovel--noted weighted value percentages of 100%.

3. Overview

Wyoming appears to have the best quality water in Region VIII. Relatively little data are available for lakes and impoundments.

WYOMING

4. STATION DESCRIPTIONS

WYOMING USGS STATIONS

NUMBER	LOCATION
06036795	Unnamed.
06185991	Astringent Creek at mouth.
06186491	Astringent Creek at mouth.
06228000	Wind River at Riverton.
06230300	Ray Lake outlet nr Fort Washakie.
06231000	Little Wind River ab Arapahoe.
06233000	PoPo Agie River at Hudson.
06235000	Beaver Creek nr Arapahoe.
06235500	Little Wind River nr Riverton.
06253000	Five Mile Creek nr Shoshoni.
06259000	Wind River below Boysen Reservoir.
06259500	Big Horn River at Thermopolis.
06264700	Big Horn River at Lucerne.
06265350	Cottonwood Creek ab Hamilton Dome.
06267050	Big Horn River at Neiber.
06268600	Big Horn River at Worland.
06260000	Big Horn River nr Manderson.
06270000	Nowood River nr Ten Sleep.
06273500	Paintrock Creek nr mouth, below Hyattuil.
06274220	Nowood River at Manderson.
06277500	Greybull River nr Basin.
06279090	Shell Creek nr Greybull.

NUMBER	LOCATION
06282000	Shoshone River below Buffalo Bill.
06284400	Shoshone River nr Garland.
06284500	Bitter Creek nr Garland.
06284800	Whistle Creek nr Garland.
06285100	Shoshone River nr Lovell.
06285400	Sage Creek at Sidon Canal nr Deaver.
06285500	Sage Creek nr Lovell.
06286200	Shoshone River at Kane.
06298000	Tongue River nr Dayton.
06305500	Goose Creek below Sheridan.
06306300	Tongue River at State Line nr Decker.
06312500	Powder River nr Kaycee.
06313000	South Fork, Powder River nr Kaycee.
06313400	Salt Creek nr Sussex.
06313500	Powder River at Sussex.
06316400	Crazy Woman Creek at Upper Station nr Arvada.
06324000	Clear Creek nr Arvada.
06324925	Little Powder River nr Weston.
06324985	Little Powder River nr Wyo.-Mont. State Line.
06386500	Cheyenne River nr Spencer.
06394000	Beaver Creek nr New Castle.

NUMBER	LOCATION
06427850	Belle Fourche River at Devil's Tower, Wyo.
06430500	Redwater Creek at Wyoming-South Dakota Line.
06623800	Encampment River nr Encampment.
06625000	Encampment River at mouth nr Encampment.
06633500	Rock Creek below Rock River.
06633000	Rock Creek above State Fish Hatchery.
06634100	Little Medicine Bow River nr Shirley.
06634600	Little Medicine Bow River nr Medicine Bow.
06635000	Medicine Bow River above Seminoe Reservoir nr Hanna.
06636000	North Platte River above Pathfinder Reservoir.
06637910	Rock Creek at Atlantic City.
06639000	Sweetwater River nr Alcova.
06642000	North Platte River at Alcova.
06643100	Poison Spring Creek nr Alcova.
06643300	Poison Spider Creek nr Mills.
06644000	Poison Spider Creek nr Goose Egg.
06644010	Unnamed.
06644010	Oregon Trail Drain nr Goose Egg.

WYOMING USGS STATIONS
(continued)

NUMBER	LOCATION
06644120	Middle Fork, Casper Creek nr Bucknum.
06644500	Casper Creek at Casper.
06646600	Deer Creek below Millar Wasteway at Glenrock.
06646800	North Platte River nr Glenrock.
06652000	North Platte River at Orin.
06652800	North Platte River below Glendo.
06656000	North Platte River below Guernsey Reservoir.
06657000	North Platte River below Whalen.
06658500	Laramie River nr Jelm.
06660000	Laramie River at Laramie.
06660500	Laramie River at Two Rivers.
06661500	Little Laramie River at Two Rivers.
06670500	Laramie River nr Fort Laramie.
06670990	Rawhide Creek above Interstate Canal.
06671000	Rawhide Creek nr Lingle.
06672500	Cherry Creek Drain nr Torrington.
06677010	Horse Creek nr Yode.
09188500	Green River nr Daw.
09192600	Green River nr Big Piney.
09201000	New Fork River nr Boulder.
09205000	New Fork River nr Big Piney.
09216000	Big Sandy River below Eden.
09216960	Bitter Creek at mouth nr Green River.

NUMBER	LOCATION
09221000	Smith's Fork nr Robertson.
09222000	Black's Fork nr Lyman.
09224450	Ham's Fork nr Granger.
09225000	Black's Fork nr Green River.
09259700	Little Snake River nr Baggs.
10018400	Yellow Creek nr Evanston.
10019000	Bear River nr Evanston.
10020100	Bear River above reservoir nr Woodruff, Utah.
10020300	Bear River below reservoir nr Woodruff, Utah.
10041000	Thomas Fork nr Wyoming-Idaho Line.
10042700	Thomas Fork nr Border, Wyo.
13009200	Unnamed tributary to Lewis River below Lewis Fork.
13012800	Cottonwood Creek at outlet of Jenny Lake.
13013570	Kelly Warm Spring nr Kelly.
13027500	Salt River above reservoir nr Etna.

WYOMING - USGS-EPA STATIONS

NUMBER	
06279500	Big Horn River nr Kane.
06317000	Power River at Arvada.
06428500	Belle Fourche River at Wyoming-South Dakota State Line.
06756000	Crow Creek at Cheyenne.
06634030	Little Medicine Bow River at Shirley Basin.
06634100	Little Medicine Bow near Shirley.
06645000	North Platte River below Casper.
06670990	Rawhide Creek.
06671000	Rawhide Creek nr Lingle.
06674500	North Platte River at Wyoming-Nebraska State Line.
09209400	Green River nr La Barge.
09216950	Bitter Creek at Green River.
09217000	Green River nr Green River, Wyo.
09224700	Black's Fork nr Little America, Wyo.
09226000	Henry's Fork nr Utah-Wyoming State Line nr Lonetree, Wyo.
09229500	Henry's Fork nr Linwood, Utah.

WYOMING

5. REJECT DATA

More than ten excesses in any parameter reported as a range (<——>) with X excesses of Y values given in parentheses.
Ag = Silver Zn = Zinc Se = Selenium
NH_3 = Ammonia NH_4 = Ammonium

REJECT LIST

WYOMING - EPA COOP STATIONS

Station #06279500 8/315 = 3% Rejects

Date	Storet # & Desc.	Value
71/11/05	01075 Ag	3 ug/l
70/10/01	01090 Zn	30 "
71/04/13	" "	20 "
71/11/05	" "	30 "
72/01/18	" "	20 "
72/04/20	" "	20 "
70/03/03	00610 NH_3	0.2 mg/l
74/04/01	" "	0.1 "

Station #06317000 29/314 = 9% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	2120 <——> 4150 mg/l (29 of 106)

Station #06428500 13/349 = 4% Rejects

Date	Storet # & Desc.	Value
69/01/01	70300 TDS	2190 mg/l
69/02/01	" "	2240 "
69/02/10	" "	2090 "
69/02/11	" "	2090 "
70/01/08	" "	2470 "
70/01/23	" "	2140 "
71/01/06	" "	2200 "
71/12/14	" "	2140 "
70/07/15	01090 Zn	20 ug/l
71/04/14	" "	20 "
71/07/20	" "	140 "
72/01/11	" "	20 "
72/04/27	" "	130 "

Station #06634100 1/8 = 12% Rejects

Date	Storet # & Desc.	Value
70/10/21	01090 Zn	12 ug/l

Station #06645000 23/212 = 11% Rejects

Date	Storet # & Desc.	Value
69/12/02	01090 Zn	20 ug/l
71/10/06	" "	30 "
Throughout	31501 Tot Coli	24,000 <——> 366,000/100 ML (10 of 14)

Station #06645000 (Cont.)

Date	Storet # & Desc.	Value
Throughout	31616 Fecal Coli	2700 <——> 27,500/100 ML (11 of 20)

Station #06674500 3/337 = 2% Rejects

Date	Storet # & Desc.	Value
71/01/11	00310 BOD	5.0 mg/l
72/04/27	" "	4.3 "
72/04/27	31616 Fecal Coli	3600/100 ML

Station #09317000 1/327 = 1% Rejects

Date	Storet # & Desc.	Value
70/10/11	01090 Zn	19 ug/l

Station #09224700 2/302 = 1% Rejects

Date	Storet # & Desc.	Value
70/01/17	00400 pH	9.8
70/01/20	" "	9.7

REJECT LIST

WYOMING - USGS COOP STATIONS

Station #06036795 1/4 = 25% Rejects

Date	Storet # & Desc.	Value
68/06/11	00400 pH	3.4

Station #06185991 1/3 = 33% Rejects

69/08/19	00400 pH	4.3

Station #06186491 1/3 = 33% Rejects

69/08/19	00400 pH	4.3

Station #06228000 1/354 = 1% Rejects

70/10/16	01090 Zn	25 ug/1

Station #06235000 1/92 = 1% Rejects

69/01/24	70300 TDS	2230 mg/1

Station #06253000 17/222 = 7% Rejects

Throughout	70300 TDS	2210 <——> 2350 mg/1 (17 of 54)

Station #06259500 3/93 = 3% Rejects

69/10/22	00610 NH_3	1.30 mg/1
69/11/19	" "	2.40 "
69/12/02	" "	0.39 "

Station #06265350 1/3 = 33% Rejects

70/09/30	70300 TDS	3110 mg/1

Station #06284800 33/226 = 15% Rejects

Throughout	70300 TDS	2510 <——> 10,400 mg/1 (33 of 63)

Station #06285100 1/330 = 1% Rejects

71/03/03	70300 TDS	5960 mg/1
70/11/03	01090 Zn	14 ug/1

Station #06285400 32/195 = 16% Rejects

Throughout	70300 TDS	2150 <——> 3050 mg/1 (32 of 54)

Station #06285500 4/27 = 15% Rejects

Date	Storet # & Desc.	Value
68/04/05	70300 TDS	3340 mg/1
70/02/03	" "	3090 "
71/01/07	" "	3170 "
71/04/14	" "	2810 "

Station #06313000 23/92 = 25% Rejects

Throughout	70300 TDS	2200 <——> 3970 mg/1 (23 of 30)

Station #06313400 52/52 = 100% Rejects

Throughout	70300 TDS	3150 <——> 5580 mg/1 (52 of 52)

Station #06313500 1/15 = 6% Rejects

68/07/31	70300 TDS	2430 mg/1

Station #06316400 8/190 = 4% Rejects

69/10/03	70300 TDS	3000 mg/1
70/01/23	" "	2480 "
70/04/20	" "	2140 "
70/08/25	" "	3060 "
70/10/12	" "	4270 "
71/01/11	" "	2170 "
71/09/09	" "	2700 "
71/10/05	" "	3180 "

Station #06324925 1/4 = 25% Rejects

69/06/12	70300 TDS	2320 mg/1

Station #06324995 2/18 = 11% Rejects

69/10/02	70300 TDS	3340 mg/1
70/01/23	" "	4030 "

Station #06386500 6/32 = 18% Rejects

69/05/14	70300 TDS	3470 mg/1
69/07/10	" "	2290 "

Station #06386500 (Cont.)

Date	Storet # & Desc.	Value
70/02/04	70300 TDS	2470 mg/1
70/03/25	" "	2620 "
70/04/30	" "	2340 "
70/06/10	" "	2890

Station #06394000 46/58 = 80% Rejects

Throughout	70300 TDS	2390 <——> 6220 mg/1 (46 of 58)

Station #06623800 2/191 = 1% Rejects

70/09/24	00300 D.O.	2.70 mg/1
71/12/21	71846 NH_4	0.17 "

Station #06633000 2/6 = 33% Rejects

68/10/18	70300 TDS	2140 mg/1
69/10/18	" "	2140 "

Station #06634100 1/16 = 6% Rejects

70/10/21	01090 Zn	12 ug/

Station #06642100 1/15 = 7% Rejects

69/06/24	01145 Se	76,300 ug/

Station #06643500 1/2 = 50% Rejects

69/06/24	01145 Se	21,000 ug/

Station #06644000 1/16 = 6% Rejects

[illegible]	01145 Se	107,[illegible] ug/

Station #06644100 1/14 = 7% Rejects

69/06/26	01145 Se	47,000 ug/1

Station #06644120 2/4 = 50% Rejects

71/06/29	70300 TDS	3500 mg/1
69/06/25	01145 Se	6000 ug/1

Station #06644500 3/17 = 17% Rejects

70/[illegible]	70300 TDS	[illegible] mg/1
71/08/04	" "	3650 "
69/06/25	01145 Se	32,000 "

REJECT LIST

WYOMING - USGS COOP STATIONS (Cont.)

Station #06670900 1/130 = 1% Rejects

Date	Storet # & Desc.	Value
70/11/13	00070 Turb	60 JTU

Station #06671000 2/190 = 1% Rejects

Date	Storet # & Desc.	Value
70/07/17	00070 Turb	70 JTU
70/07/24	" "	60 "

Station #06756000 4/9 = 44% Rejects

Date	Storet # & Desc.	Value
72/07/23	31501 Tot Coli	26,100,000/100 ML
72/10/02	" " "	8,500,000/ " "
72/07/23	31616 Fecal Coli	1,835,000/ " "
72/10/02	" " "	2,300,000/ " "

Station #09216000 34/333 = 10% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	2120 ←→ 3080 mg/l (34 of 60)

Station #09216900 1/3 = 33% Rejects

Date	Storet # & Desc.	Value
66/05/18	70300 TDS	3690 mg/l

Station #09222000 13/286 = 5% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	2110 ←→ 3340 mg/l (13 of 91)

Station #09216950 14/87 = 16% Rejects

Date	Storet # & Desc.	Value
Throughout	70300 TDS	2190 ←→ 4760 mg/l (14 of 23)

WYOMING

6. DATA REDUCTION FORMS

WYOMING USGS STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

		I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
Station Number(s)	Period of Record	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Raw Weight	%
06222800	1/68-6/72	0	109	0	1	4	25	0	0	0	0	132	0	0	109	0	0 - 0 0 0	0	21	
06230300	5/68-8/70	9	9	100	0	0	0	0	0	0	1	13	13	0	9	0	- - - 2 -	x	x	
06231000	1/68-6/72	36	47	13	0	0	0	0	0	0	4	92	23	0	47	0	2 - - 2 0	4	12	33
06233600	1/68-2/69	9	14	7	0	0	0	0	0	0	0	29	0	1	14	7	1 - - 2 1	5	12	41
06235000	1/68-6/72	25	31	77	0	0	0	0	0	0	0	61	0	0	0	0	3 - - 0 -	x	x	
[illegible]	1/68-5/72	69	108	64	0	0	0	0	0	0	2	132	66	12	110	11	3 - - 3 2	10	12	83
06253000	1/68-5/72	53	54	78	0	0	0	0	0	0	1	114	11	43	54	80	3 - - 2 3	11	12	92
06[illegible]5900	1/68-6/72	10	74	14	0	0	0	0	0	0	0	95	0	0	74	0	2 - - 0 0	2	12	17
06259300	5/69-6/70	2	11	18	3	10	30	1	27	3	5	34	56	0	11	0	2 3 1 3 0	23	36	64
06264700	1/68-6/72	18	52	35	0	0	0	0	0	0	4	95	23	1	52	2	3 - - 2 1	7	12	58
06267050	1/68-7/69	19	22	86	0	0	0	0	0	0	6	41	14	0	22	0	3 - - 2 0	[illegible]	12	[illegible]
06268600	1/68-6/72	55	65	85	0	0	0	0	0	0	2	99	5	6	64	9	3 - - 1 1	6	12	50

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses	Values	%	II HAZ. MATERIALS WEIGHT = 5 Excesses	Values	%	III ORB WEIGHT = 3 Excesses	Values	%	IV FIELD WEIGHT = 1 Excesses	Values	%	V NUTRIENT WEIGHT = 2 Excesses	Values	%	RATING 0= 0% 1= 1-10% 2= 10-25% 3= 25% – Dash(—)=Not Ratable	WEIGHTED RATING Rated	Weight-Max Weight	%
[illegible]269000	3/63-6/71	5	5	100	0	0	0	0	0	0	1	9	9	1	5	2	– – – – –	x	x	
[illegible]7000	1/68-6/72	37	47	79	0	0	0	0	0	0	4	91	23	9	47	19	3 – – 2 2	9	12	75
[illegible]273500	1/68-6/72	31	49	63	0	0	0	0	0	0	2	97	59	1	59	3	3 – – 3 1	8	12	67
[illegible]274220	1/68-6/72	32	44	73	0	0	0	0	0	0	4	84	21	3	43	6	3 – – 2 1	7	12	58
[illegible]77500	[illegible]/68-6/72	41	46	89	0	0	0	0	0	0	4	83	21	5	46	11	3 – – 2 2	9	12	75
[illegible]79090	1/68-6/72	40	48	83	0	0	0	0	0	0	3	93	31	6	48	12	3 – – 3 2	10	12	[illegible]
[illegible]79850	[illegible]/68-7/70	0	8	0	0	0	0	0	0	0	2	9	5	0	9	0	– – – – –		x	
[illegible]82000	1/68-5/72	2	44	5	0	0	0	0	0	0	0	83	0	0	44	0	1 – – 0 0	1	12	8
[illegible]	[illegible]68-6/71	5	11	45	0	0	0	0	0	0	1	38	5	2	11	18	3 – – 1 2	6	12	50
[illegible]	[illegible]9-5/72	48	59	81	0	0	0	0	0	0	2	97	49	58	59	98	3 – – 3 3	12	12	100
	[illegible]-5/72	40	63	63	0	0	0	0	0	0	3	100	33	38	63	60	3 – – 3 3	12	12	100
	[illegible]-5/72	63	97	65	1	8	8	0	0	0	1	129		39	96	40	3 – – 3 3	12	12	100

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING	
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight
06285400	10/69-5/72	54	54	100	0	0	0	0	0	0	0	87	0	43	54	70	3 - - 0 3	9	12
06285500	4/68-7/71	7	7	100	0	0	0	0	0	0	1	13	13	6	7	86	- - - 2 -	x	x
06286200	1/68-9/68	23	23	100	0	0	0	0	0	0	1	24	4	10	23	43	3 - - 1 3	10	12
0629800	1/68-6/72	0	65	0	0	0	0	0	0	0	0	127	0	0	65	0	0 - - 0 0	0	12
06305500	1/68-6/72	14	52	27	0	0	0	0	0	0	0	52	0	18	52	35	3 - - 0 3	9	12
06306300	1/68-6/72	54	104	48	0	0	0	0	0	0	6	130	22	14	104	13	- - 2 2	9	12
06312500	5/68-6/72	39	44	39	0	0	0	0	0	0	7	86	13	4	44	9	3 - - 1 1	6	12
06313000	6/68-6/72	30	30	100	0	0	0	0	0	0	0	31	0	21	31	68	3 - - 0 3	9	12
06313400	1/68-6/72	52	52	100	0	0	0	0	0	0	0	0	0	0	0	0	3 - - - -	6	12
06313500	1/68-7/68	16	16	100	0	0	0	0	0	0	0	0	0	0	0	0	3 - - - -	x	x
06316400	1/68-6/72	46	48	96	0	0	0	0	0	0	3	94	3	4	48	8	3 - - 1 1	x	x
06324000	1/68-6/72	39	49	80	0	0	0	0	0	0	7	96	7	11	49	22	3 - - 1 2	8	12

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–)=Not Ratable	Rated Weight	Max Weight	%
06324985	10/69-5/70	5	5	100	0	0	0	0	0	0	0	8	0	0	5	0	– – – – –	x	x	
06386500	5/69-6/70	8	8	100	0	0	0	0	0	0	0	0	0	0	0	0	– – – – –	x	x	
06394000	1/68-6/72	57	58	98	0	0	0	0	0	0	0	0	0	0	0	0	3 – – – –	x	x	
06427850	2/68-6/72	48	49	98	0	0	0	0	0	0	0	0	0	0	0	0	3 – – – –	x	x	
06430500	5/69-6/70	13	13	100	0	0	0	0	0	0	0	0	0	0	0	0	3 – – – –	x	x	
06623800	1/68-7/72	0	29	0	1	6	17	1	35	2	6	59	10	5	42	12	0 2 1 1 2	20	36	55
06625000	1/68-6/72	0	45	0	0	0	0	0	0	0	1	45	2	0	45	0	0 – – 1 0	x	x	
06633500	2/68-9/68	13	13	100	0	0	0	0	0	0	0	0	0	0	0	0	3 – – – –	x	x	
06633800	10/68-10/69	2	2	100	0	0	0	0	0	0	0	0	0	0	0	0	– – – – –	x	x	
06634600	1/68-6/72	30	48	63	0	0	0	0	0	0	0	0	0	0	0	0	3 – – – –	x	x	
06635000	2/68-6/72	41	48	85	0	0	0	0	0	0	0	0	0	0	0	0	3 – – – –	x	x	
06636000	1/68-6/72	0	0	–	0	0	–	0	20*	0	0	78	0	0	0	–	– – 0 0 –	x	x	

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–)=Not Rateable	Rated Weight	Max Weight	%
06637910	5/69-9/71	0	4	0	2	8	25	0	0	0	0	10	0	2	4	50	- - - 0 -	x	x	
06639000	1/68-6/72	0	49	0	0	0	-	0	0	-	0	96	0	0	49	-	0 - - 0 0	0	12	0
06642000	1/68-6/72	0	56	0	0	7	-	0	0	-	0	57	0	0	46	0	0 - - 0 0	0	12	0
06643100	10/68-6/70	0	0	0	15	15	100	0	0	0	0	0	0	0	0	0	- 3 - - -	x	x	
06643900	11/68-6/69	0	0	0	1	2	50	0	0	0	0	0	0	0	0	0	- - - - -	x	x	
06644000	10/68-6/70	0	0	0	16	16	100	0	0	0	0	0	0	0	0	0	- 3 - - -	x	x	
06644040	10/68-6/70	0	0	0	12	14	86	0	0	0	0	0	0	0	0	0	- 3 - - -	x	x	
06644120	10/68-6/71	1	1	100	1	3	0	0	0	0	0	0	0	0	0	0	- - - - -	x	x	
06644500	10/68-6/71	2	2	100	15	15	100	0	0	0	0	0	0	0	0	0	- 3 - - -	x	x	
06646600	1/68-6/72	53	94	56	-	-	-	-	-	-	-	-	-	-	-	-	3 - - - -	x	x	
06646800	1/68-6/72	18	84	21	-	-	-	-	-	-	-	-	-	-	-	-	2 - - - -	x	x	
06652000	1/68-6/72	6	53	11	-	-	-	-	-	-	-	-	-	-	-	-	2 - - - -	x	x	

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1 Excesses			II HAZ. MATERIALS WEIGHT = 5 Excesses			III ORB WEIGHT = 3 Excesses			IV FIELD WEIGHT = 1 Excesses			V NUTRIENT WEIGHT = 2 Excesses			RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	WEIGHTED RATING Rated Weight		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
06652800	1/68-6/72	21	47	45	-	-	-	-	-	-	-	-	-	-	-	-	3 - - - -	x	x	
06656000	1/68-6/72	12	47	26	-	-	-	-	-	-	-	-	-	-	-	-	3 - - - -	x	x	
06657000	7/70-3/72	1	1	100	0	0	0	0	59*	0	34	177	14	1	1	100	- - 0 2 -	x	x	
06658500	4/68-9/68	0	11	0	0	0	0	0	0	0	0	11	0	0	11	0	0 - - 0 0	0	12	0
06660000	5/68-6/70	4	15	27	0	20	0	-	-	-	-	-	-	-	-	0	3 0 - - -	x	x	
06660500	1/68-6/72	24	55	44	-	-	-	-	-	-	-	-	-	-	-	0	3 - - - -	x	x	
06661500	1/68-6/72	4	54	7	-	-	-	-	-	-	-	-	-	-	-	0	1 - - - -	x	x	
06670500	1/68-5/72	46	82	56	-	-	-	-	-	-	-	-	-	-	-	0	3 - - - -	x	x	
06670990	10/70-3/72	1	1	100	0	0	0	0	0	0	12	178	6	0	1	0	- - - 1 -	x	x	
06671000	7/70-3/72	1	1	100	0	0	0	0	60	0	49	128	38	1	1	100	- - 0 3 -	x	x	
06672500	7/67-7/72	4	4	100	0	0	0	0	0	0	9	62	14	3	3	100	- - - 2 -	x	x	
06675380	5/68-5/68	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	- - - - -	x	x	

*D.O. Only

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(—)=Not Rateable	Rated Weight	Max Weight	%
06677010	7/69-7/72	4	4	100	0	0	0	0	0	0	9	54	16	0	2	0	- - - 2 -	x	x	
0919260	10/67-6/72	0	53	0	0	0	0	0	0	0	1	56	1	0	53	0	0 - - 1 0	1	12	8
09201000	2/69-7/71	0	54	0	0	0		0	0	0	0	54	0	0	44	0	0 - - 0 0	0	12	0
09188600	1/68-6/72	0	53	0	0	0	0	0	10	0	1	125		0	53	0	0 - 0 1 0	1	12	8
09205000	2/68-6/72	0	69	0	-	-	-	0	11	0	5	128	6	0	70	0	0 - 0 1 0	1	12	8
09216000	1/68-6/72	56	60	93	0	0	0	0	32	0	9	182	0	16	59	27	3 - 0 0 3	9	12	75
09216960	9/68-9/68	1	1	100	0	0	0	0	0	0	0	1	0	0	1	0	- - - - -	x	x	
09221000	8/69-6/70	0	3	0	0	0	0	0	2	0	1	5	20	0	3	0	- - - 2 -	x	x	
09222000	1/68-7/72	82	91	90	0	0	0	0	0	0	5	103	5	1	92	1	3 - - 1 1	6	12	50
09224450	1/68-6/72	19	50	38	0	0	0	0	0	0	0	50	0	0	50	0	3 - - 0 0	3	12	25
09259700	1/68-3/72	4	49	8	0	0	0	0	17	0	4	67	6	0	42	0	1 - 0 1 0	2	21	9
10015700	1/68-7/68	0	3	0	0	0	0	0	0	0	0	3	0	0	6	0	- - - - -	x	x	

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% - Dash(–)=Not Rateable	Rated Weight	Max Weight	%
10018400	1/68-7/68	0	3	0	0	0	0	0	0	0	0	3	0	1	6	17	- - - - 2	x	x	
10019000	1/68-7/68	0	3	0	0	0	0	0	0	0	0	3	0	2	6	33	- - - - 3	x	x	
10020100	1/68-6/72	0	30	0	0	0	0	0	0	0	1	29	3	0	33	0	0 - - 1 0	3	12	25
10020300	1/68-5/72	0	10	0	0	1	0	0	4	0	1	17	6	0	11	0	0 - - 1 0	7	15	47
10041000	1/68-5/71	5	8	63	0	0		0	5	0	0	28	0	2	8	25	3 - - 0 -	x	x	
10042700	1/68-8/70	4	6	67	0	0	0	0	0	0	0	20	0	3	13	23	- - - 0 2	x	x	
13009200	5/69-7/70	0	6	0	0	0	0	0	0	0	4	14	56	0	7	0	- - - 3 -	x	x	
13012800	7/69-7/69	0	8	0	0	0	0	0	0	0	4	18	72	0	8	0	- - - 3 -	x	x	
13013570	5/69-10/70	0	6	0	0	0	0	0	0	0	7	14	10	0	6	0	- - - 1 -	x	x	
13027300	1/68-6/72	0	52	0	0	0	0	0	0	0	0	103	0	38	52	73	0 - - 0 3	6	12	50

WYOMING EPA/COOP STATIONS

REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING 0= 0% 2= 10-25% 1= 1-10% 3= 25% - Dash(—)=Not Rateable	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%		Rated Weight	Max Weight	%
06279500	1/68-7/72	63	76	81	9	38	24	7	29	24	1	88	1	7	84	8	3 2 2 1 2	24	36	66
06317000	1/68-7/72	105	106	99	-	-	-	2	4	50	0	99	0	12	105	11	3 - - 0 2	7	12	58
06428500	1/68-6/72	105	108	97	5	49	10	3	24	12	9	157	6	8	11	72	3 1 2 1 3	21	36	54
06756000	7/72-10/72	-	-	-	-	-	-	7	7	100	0	2	0	-	-	-	- - - - -	-	-	-
06634030	New																	-	-	-
06634100	10/70-9/72	-	-	-	1	2	50	0	3	0	0	3	0	-	-	-	- - - - -	-	-	-
06645000	1/68-6/72	19	72	26	3	100	3	-	-	-	-	-	-	34	40	85	3 1 - - 3	14	24	58
06674500	3/68-6/72	48	76	63	-	-	-	10	72	14	9	150	6	32	39	82	3 - 2 1 3	16	21	76
09209400	1/68-6/72	0	86	0	-	-	-	0	23	0	7	160	4	0	86	0	0 - 0 1 0	1	21	4
09216950	2/68-4/72	23	23	100	-	-	-	0	9	0	4	32	13	18	23	78	3 - - 2 3	11	12	92
09217000	1/68-10/72	15	82	18	1	2	50	0	31	0	22	129	17	1	85	1	2 - 0 2 1	6	21	29
09224700	1/68-10/72	64	74	86	-	-	-	0	34	0	28	120	23	0	74	0	3 - 0 2 0	5	21	24

WYOMING USGS/EPA STATIONS

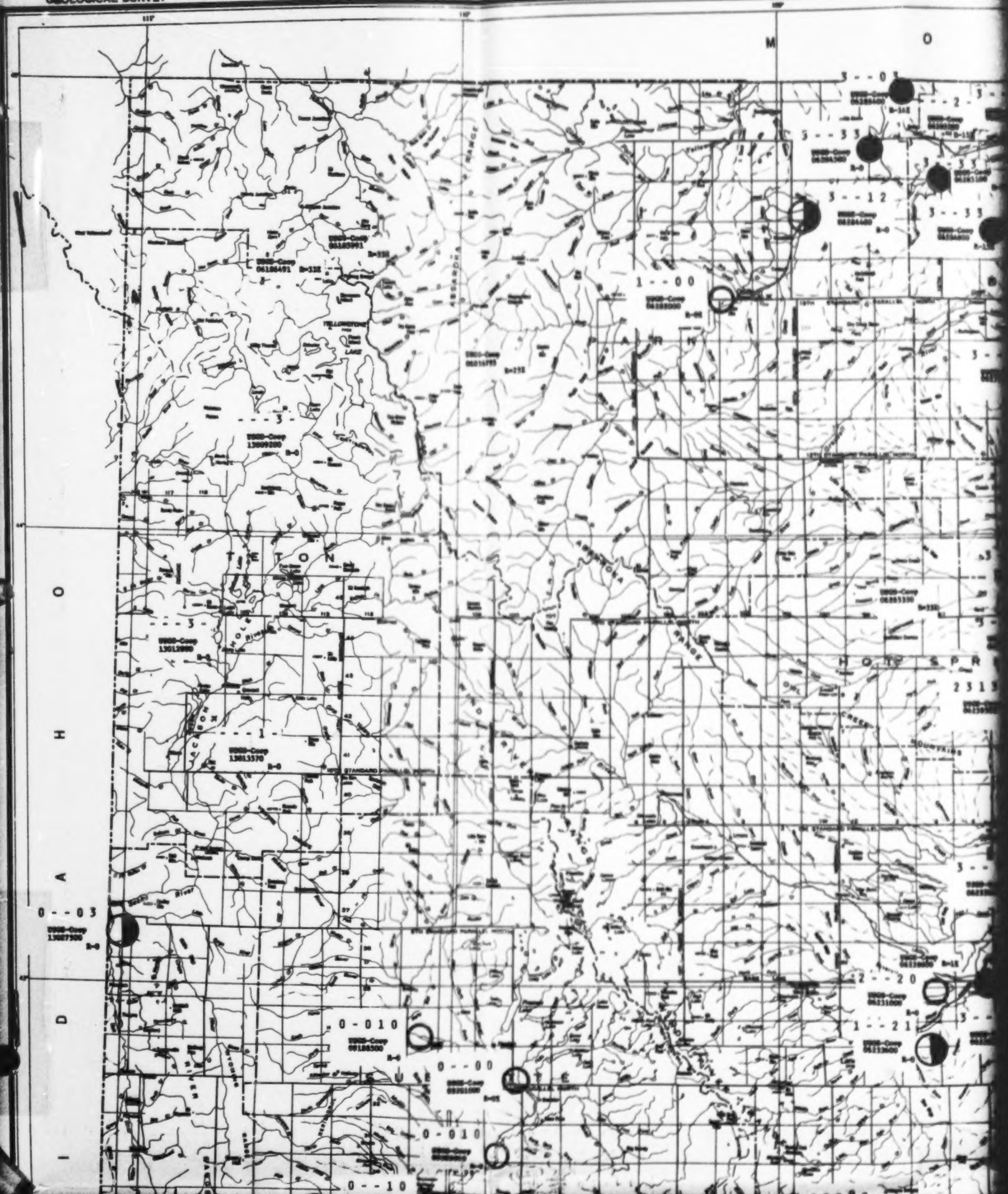
REGION VIII
WATER QUALITY ASSESSMENT

PARAMETER GROUPS (10 VALUES IN A GROUP REQUIRED FOR RATING)

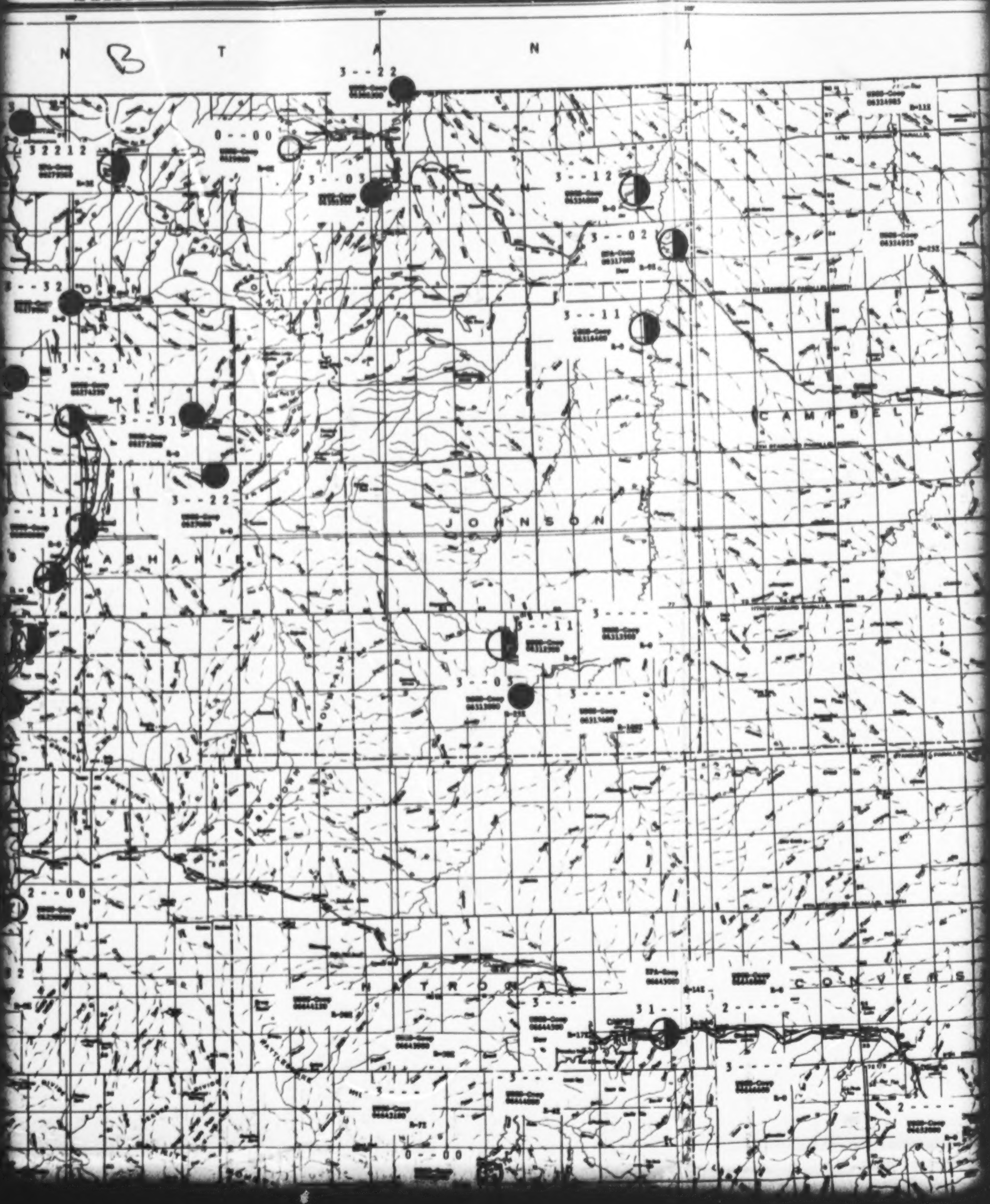
Station Number(s)	Period of Record	I TDS WEIGHT = 1			II HAZ. MATERIALS WEIGHT = 5			III ORB WEIGHT = 3			IV FIELD WEIGHT = 1			V NUTRIENT WEIGHT = 2			RATING	WEIGHTED RATING		
		Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	Excesses	Values	%	0= 0% 2= 10-25% 1= 1-10% 3= 25% + Dash(–)=Not Rateable	Rated Weight	Max Weight	
09226000	8/68-6/72	0	7	0	–	–	–	–	–	–	2	13	15	0	7	0	– – – 2 –	–	–	
09229500	1/68-10/72	72	83	87	–	–	–	0	39	0	5	127	4	4	75	5	3 – 0 1 1	6	21	2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A

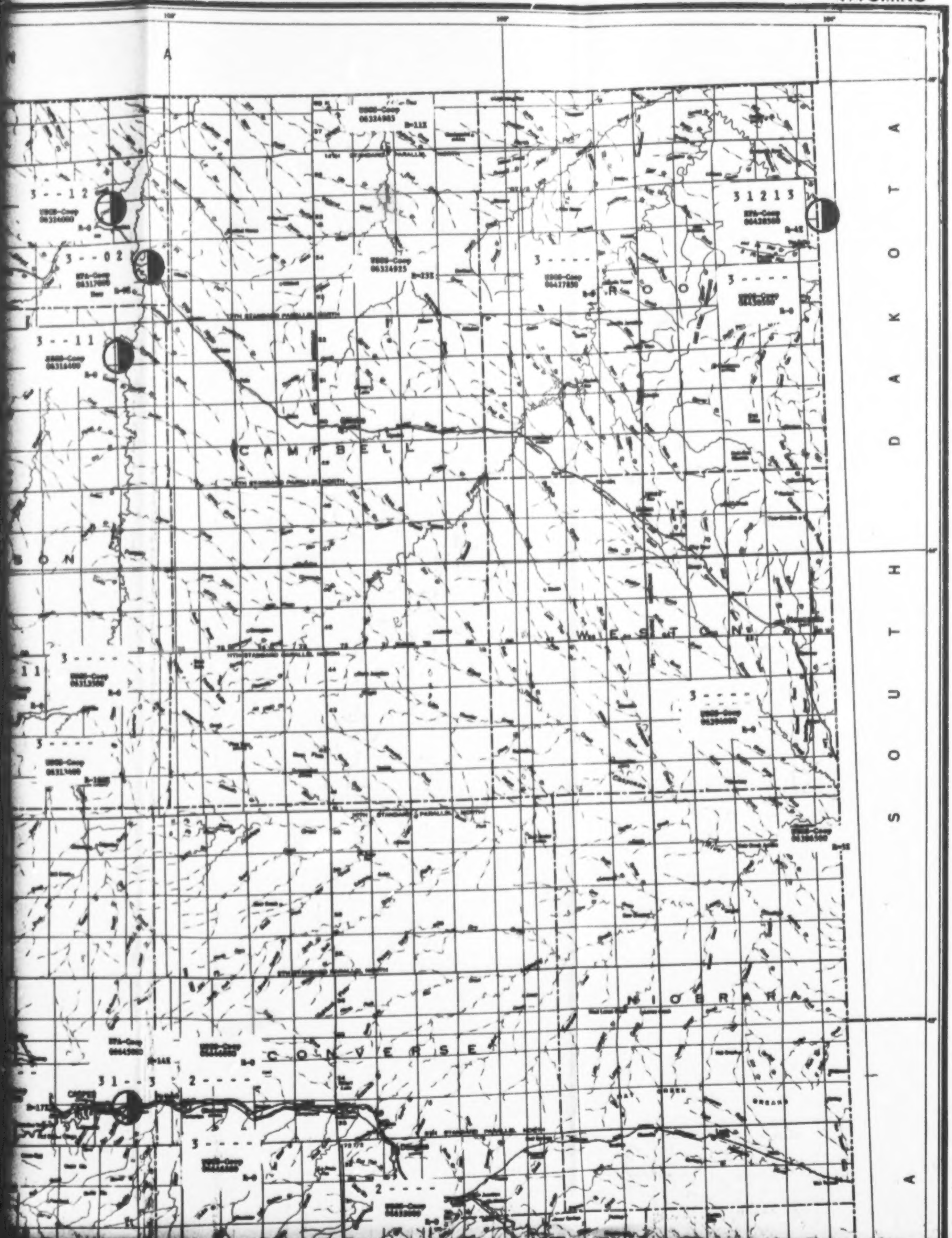

M
O
I
D
A
H
O
TETON
HOT SPR
YELLOWSTONE
LAKE
3--03
5--33
3--12
3--33
1--00
3
USGS-Coop
06186491
B-332
USGS-Coop
13009200
B-0
3
USGS-Coop
13012800
B-0
1
USGS-Coop
13013370
B-0
0--03
0-010
0--00
0-010
0--10
2--20
1--21
2313
0

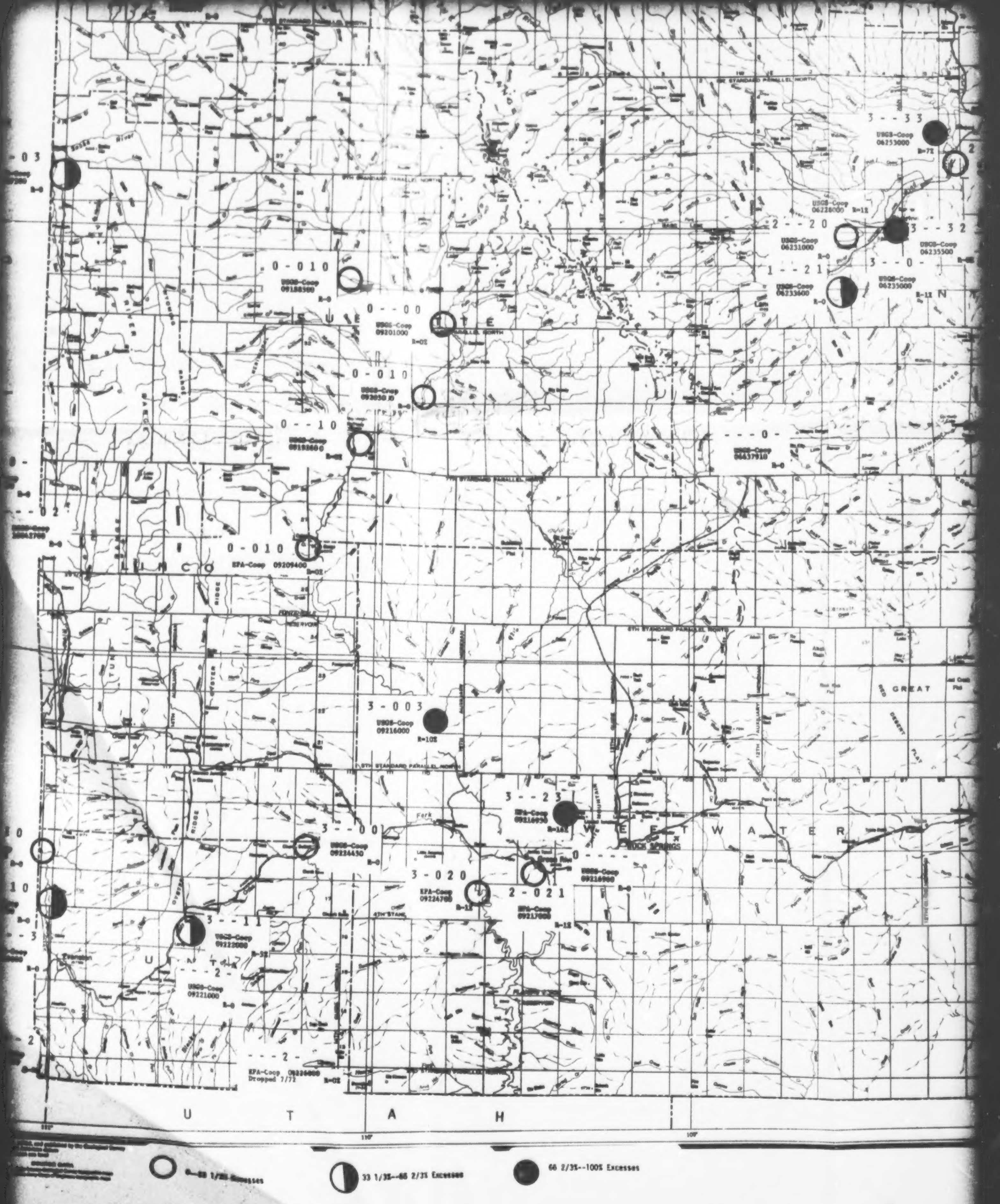
STATE OF WYOMING

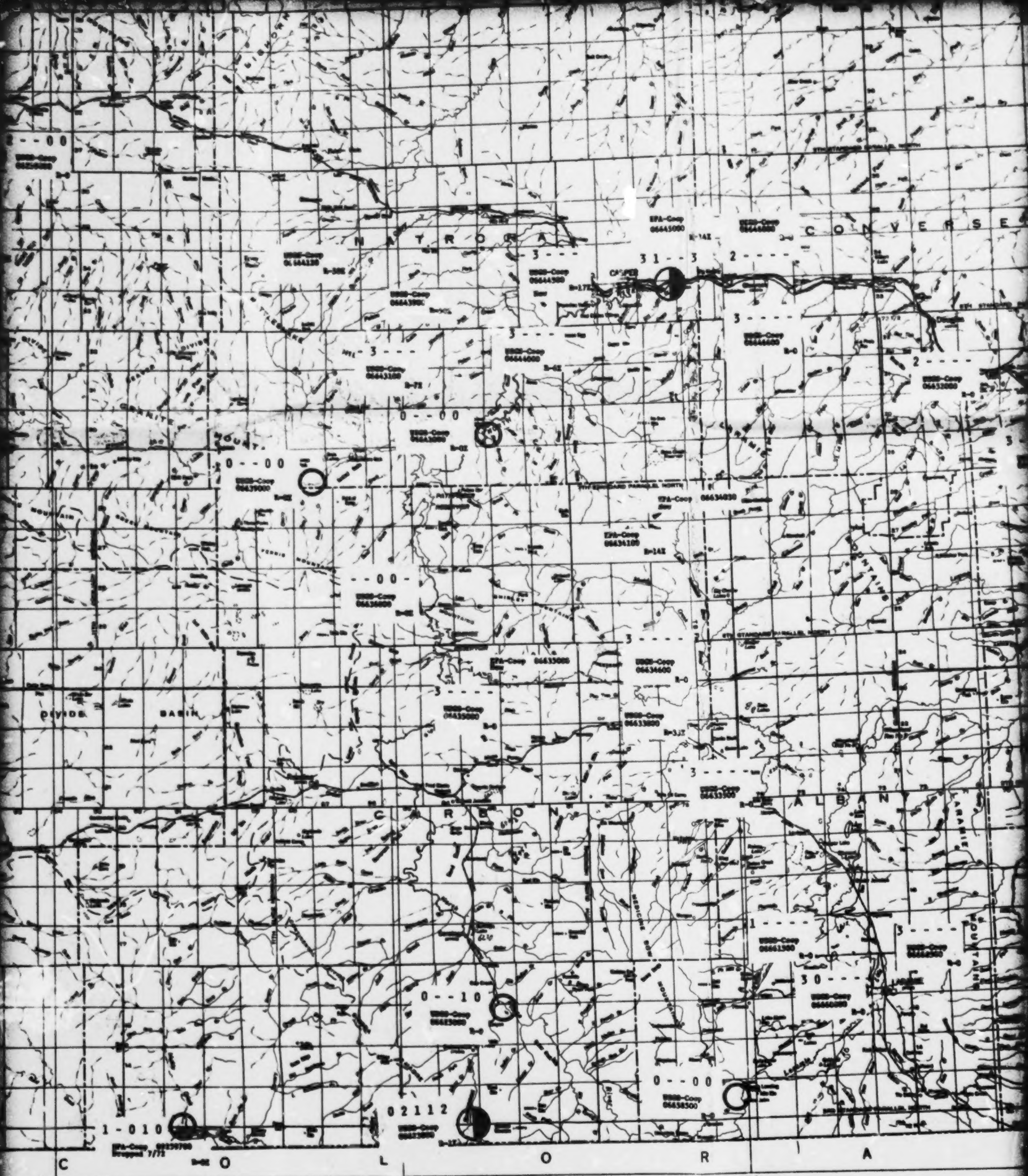


N T A N A
B
3--22
0--00
32212
3--03
3--12
3--02
3--32
3--11
3--21
3--31
CAMPBELL
3--22
JOHNSON
3--11
WASHAKIE
3--11
3--03
2--00
NATRONA
CONVERSE
31--3
2----
0--00

C


SOUTH DAKOTA
CAMPBELL
WESTON
NIOBRARA
CONVERSE
R O O
SON
3--12
3--02
3--11
31213
31--3
USGS-Coop
06324925
06427850
USGS-Coop 06324995
B-112
B-232
B-42
B-55
B-0


3 - - 3 3
USGS-Coop
06253000
R-7%
2 - - 2 0
USGS-Coop
06228000
R-1%
USGS-Coop
06231000
R-0
3 - - 3 2
USGS-Coop
06235500
1 - - 2 1
USGS-Coop
06233600
R-0
3 - - 0 -
USGS-Coop
06235000
R-1%
- 0 3
0 - 0 1 0
USGS-Coop
09188500
R-0
0 - - 0 0
USGS-Coop
09201000
R-0%
0 - 0 1 0
USGS-Coop
09203000
R-0
0 - - 1 0
USGS-Coop
09192600
R-0%
- - - 0 -
USGS-Coop
06637910
R-0
- - 0 2
0 - 0 1 0
EPA-Coop 09209400
R-0%
3 - 0 0 3
USGS-Coop
09216000
R-10%
3 - - 2 3
EPA-Coop
09216050
R-14%
3 - - 0 0
USGS-Coop
09224450
R-0
0 - - -
USGS-Coop
09216900
R-0
3 - 0 2 0
EPA-Coop
09224700
R-1%
2 - 0 2 1
EPA-Coop
09217000
R-1%
3 - - 1 1
USGS-Coop
09222000
R-3%
- - - 2 -
USGS-Coop
09221000
R-0
- - - 2 -
EPA-Coop 09226000
Dropped 7/72
R-0%
Fork
GREAT
ROCK SPRINGS
U T A H
110°
109°
0--33 1/3% Excesses
33 1/3%--66 2/3% Excesses
66 2/3%--100% Excesses



N A T R O N A
C O N V E R S E
CASPER
31--3
2----
3----
0--00
DIVIDE BASIN
C A R B O N
A L B A N Y
LARAMIE
LARAMIE MOUNTAINS
0--10
02112
1-010
30---
1----
EPA-Coop
USGS-Coop
Dropped 7/72
C O L O R A D O
SCALE 1:500,000

NIOBRARA
CONVERSE
PLATTE
GOSHEN
ALBANY
LARAMIE
CHEYENNE
Torrington
NEBRASKA
COLORADO
31-3
2
3
02
1
3-213
0--00
30

LEGEND

POPULATION KEY

CHEYENNE
Rawlins
Greybull

WYOMING

BASE MAP

F

IV. General Overview

Further refinements of this Water Quality Index (WQI) will be necessary. Once the dissemination and review phases are complete, all pertinent comments will be screened and appropriate changes made. At that time, a computer program will be designed to handle further reviews.